



## Programme Plan “International Masterprogramm in Horticultural Science”

Semester	Modules	credits
1 <sup>st</sup>	<b>Compulsory modules</b> (6 credits each)	30
	<ul style="list-style-type: none"> <li>• Plant molecular physiology</li> <li>• Crop quality assessment</li> <li>• Plant biotechnology</li> <li>• Ecophysiological basics of urban horticulture</li> <li>• Seminar horticultural sciences</li> </ul>	
	<b>Compulsory elective modules</b> (6 credits each at HU) At least 5 credits have to be taken in the field of Complementary Activities! 15-45 credits have to be imported from one or several partner universities.	60 minimum
2 <sup>nd</sup>	<p><u>Crop management</u></p> <ul style="list-style-type: none"> <li>• Land use systems for horticultural crop</li> <li>• Cultivation of vegetables in the Tropics and Subtropics</li> <li>• International floriculture and nursery</li> <li>• Food chain management</li> <li>• Urban horticulture – An introduction</li> <li>• Methods of monitoring and evaluation of technical processes in horticulture</li> <li>• Horticultural outdoor plant systems (decorative plants)</li> </ul> <p><u>Economics</u></p> <ul style="list-style-type: none"> <li>• Management in horticulture</li> </ul> <p><u>Plant and soil biochemistry</u></p> <ul style="list-style-type: none"> <li>• Effects of plant nutrition and other environmental factors on composition and quality of vegetable and ornamental plants</li> <li>• Plant nutrition and nutrient supply in environmentally-friendly horticultural systems</li> </ul> <p><u>Crop ecophysiology</u></p> <ul style="list-style-type: none"> <li>• Physiology of woody plants and applied dendrology</li> </ul> <p><u>Plant biotechnology</u></p> <ul style="list-style-type: none"> <li>• Biology of generative propagation in horticulture</li> </ul> <p><u>Complementary activities</u></p> <ul style="list-style-type: none"> <li>• Current issues in horticulture (Field trip)</li> </ul>	
3 <sup>rd</sup>	<p><u>Crop management</u></p> <ul style="list-style-type: none"> <li>• Hydroponical systems in horticulture</li> <li>• Development of new floricultural products</li> <li>• Organic farming and sustainable land use</li> </ul> <p><u>Plant and soil biochemistry</u></p> <ul style="list-style-type: none"> <li>• Symbiotics in plant nutrition</li> </ul> <p><u>Plant protection</u></p> <ul style="list-style-type: none"> <li>• Postharvest quality and stored product protection</li> </ul> <p><u>Complementary activities</u></p> <ul style="list-style-type: none"> <li>• Information and communication technology in horticultural science</li> </ul>	
	<b>Summer Schools (Two weeks during the holidays)</b>	
	<p><u>Plant protection</u></p> <ul style="list-style-type: none"> <li>• Lab course on selected plant pathogens/pests or control management (Summer)</li> <li>• Diagnosis of plant pathogens (Winter)</li> </ul>	
4 <sup>th</sup>	<p><b>Master Thesis</b> (25 credits) and Colloquium (5 credits), supervised by home and partner university (=15 credits import from supervising partner university!) To receive a double degree, at least 30 credits from modules plus 15 credits from the master thesis have to be acquired from one partner!</p>	30