

Semester	Module						Credits
1. c	Plant and Animal Cell Biology (required) written exam 5 CP	Immunology: Crop and Livestock Health and Disease (required) written exam 5 CP	Statistical Computing and Data Analysis (required) written exam 5 CP	Lab Course Immunology (elective) written exam 5 CP	Plant Biotechnology (elective) written exam 5 CP	Marker -assisted Selection (elective) oral exam 5 CP	30
2. d	Practical Course: Computing for Highthroughput Biology (elective) research paper 10 CP		Physiology (required) written exam 5 CP	Genetics and Genomics (required) written exam + presentation 5 CP	Reproductive Biotechnology and Basic Molecular Developmental Biology (elective) oral exam 5 CP	Crop Genomics (elective) written exam 5CP	30
3.	Research Project: Chemical Genetics (elective) report 10 CP		Plant Epigenetics and Epigenomics (elective) presentation 5 CP	Evolutionary Genetics of Plant and Microorganisms (elective) oral exam 5 CP	Transcriptional and Posttranscriptional Regulation in Eukaryotes (elective) written exam + presentation 5 CP	Genetic Engineering of Livestock (elective) oral exam 5 CP	30
4.	Master's Thesis (27 CP) + Thesis Colloquium (3 CP)						30
				required modules	elective modules	final thesis	