

<b>Georg-August-Universität Göttingen</b> <b>Module M.iPAB.0006: Breeding informatics</b>		6 C 4 WLH
<b>Learning outcome, core skills:</b> Students acquire their knowledge of informatics methods to evaluate large datasets for breeding issues.		<b>Workload:</b> Attendance time: 56 h Self-study time: 124 h
<b>Course: Breeding informatics</b> (Lecture, Exercise) <i>Contents:</i> <ul style="list-style-type: none"> <li>• Basics of Linux operating system</li> <li>• Basic data structures</li> <li>• Programming in R</li> <li>• Regular expressions</li> <li>• Design and implementation of pipelines for data analysis</li> <li>• Shell scripts on Linux (gawk, sed)</li> <li>• Relation of genotype - phenotype</li> <li>• Basic concepts of bioinformatics</li> </ul>		4 WLH
<b>Examination: Written examination (90 minutes)</b> <b>Examination requirements:</b> Profound knowledge of informatics methods to evaluate large datasets for breeding issues.		6 C
<b>Admission requirements:</b> none	<b>Recommended previous knowledge:</b> Basic knowledge of molecular genetics, statistics, programming	
<b>Language:</b> English	<b>Person responsible for module:</b> Prof. Dr. Armin Schmitt	
<b>Course frequency:</b> each summer semester	<b>Duration:</b> 1 semester[s]	
<b>Number of repeat examinations permitted:</b> twice	<b>Recommended semester:</b>	
<b>Maximum number of students:</b> 20		