

Sample study plans for the master's degree program in Bioinformatics:

1. Master's degree program in Bioinformatics with the profile area Complex Systems

Semester	Fundamental study portion, 30 credits			
1. FS 30 Credits	Module Foundations in Computer Science 6 Credits	Module Foundations in Mathematics and Statistics 6 Credits	Module Foundations in Bio-Medicine 6 Credits	Module Introduction to Focus Areas 12 Credits
2. FS 30 Credits	Profile area, 45 Credits			Supplementary area, 15 Credits
	Mandatory area		Elective area	
	Module Complex Systems in Bioinformatics 10 Credits	Module Ethics and Policy Questions 5 Credits	Modules from the chosen profile area totaling 15 Credits*	Modules from the other profile areas totaling 15 Credits*
V-Module Complex Systems in Biomedical Applications 5 Credits	Module Research Internship 10 Credits			
3. FS 30 Credits				
4. FS 30 Credits	Master's thesis with accompanying colloquium 30 Credits			

* In the elective area and the supplementary area, at least one lecture module (V-Modul) and one practical module (Praxismodul) in all must be chosen and successfully completed.

2. Master's degree program in Bioinformatics with the **profile area Data Science**

Semester	Fundamental study portion, 30 credits			
1. FS 30 Credits	Module Foundations in Computer Science 6 Credits	Module Foundations in Mathematics and Statistics 6 Credits	Module Foundations in Bio-Medicine 6 Credits	Module Introduction to Focus-Areas 12 Credits
2. FS 30 Credits	Profile area, 45 Credits			Supplementary area, 15 Credits
	Mandatory area		Elective area	
3. FS 30 Credits	Module Data Science in the Life Sciences 15 Credits	Module Ethics and Policy Questions 5 Credits	Modules from the chosen profile area totaling 15 Credits*	Modules from the other profile areas totaling 15 Credits*
		Module Research Internship, 10 Credits		
4. FS 30 Credits	Master's thesis with accompanying colloquium 30 Credits			

* In the elective area and the supplementary area, at least one lecture module (V-Modul) and one practical module (Praxismodul) in all must be chosen and successfully completed.

3. Master's degree program in Bioinformatics with the **profile area Advanced Algorithms**

Semester	Fundamental study portion, 30 credits			
1. FS 30 Credits	Module Foundations in Computer Science 6 Credits	Module Foundations in Mathematics and Statistics 6 Credits	Module Foundations in Bio-Medicine 6 Credits	Module Introduction to Focus-Areas 12 Credits
2. FS 30 Credits	Profile area, 45 Credits			Supplementary area, 15 Credits
	Mandatory area		Elective area	
	Module Advanced Algorithms for Bioinformatics 10 Credits	Module Ethics and Policy Questions 5 Credits	Modules from the chosen profile area totaling 15 Credits*	Modules from the other profile areas totaling 15 Credits*
V-Module Methods in Life Sciences 5 Credits	Module Research Internship 10 Credits			
3. FS 30 Credits				
4. FS 30 Credits	Master's thesis with accompanying colloquium 30 Credits			

* In the elective area and the supplementary area, at least one lecture module (V-Modul) and one practical module (Praxismodul) in all must be chosen and successfully completed.