

## Sample study plans - Master's degree program in Bioinformatics

### 1. Profile area **Complex Systems**

Semester	Fundamental study portion, 30 CP			
1. FS 30 CP	Module Foundations in Computer Science 6 CP	Module Foundations in Mathematics and Statistics 6 CP	Module Foundations in Bio-Medicine 6 CP	Module Introduction to Focus Areas 12 CP
2. FS 30 CP	Profile area, 30 CP		Elective area, 30 CP*	
	Module <b>Complex Systems in Bioinformatics</b> 10 CP	Module Ethics and Policy Questions 5 CP	Profile modules from the chosen Profile area <b>Complex Systems</b> totaling at least 10 CP	Optional modules (profile and elective modules) totaling 20 CP
3. FS 30 CP	V-Module <b>Complex Systems in Biomedical Applications</b> 5 CP	Module Research Internship 10 CP		
4. FS 30 CP	Master's thesis with accompanying colloquium 30 CP			

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

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### 2. Profile area **Data Science**

Semester	Fundamental study portion, 30 CP			
1. FS 30 CP	Module Foundations in Computer Science 6 CP	Module Foundations in Mathematics and Statistics 6 CP	Module Foundations in Bio-Medicine 6 CP	Module Introduction to Focus Areas 12 CP
2. FS 30 CP	Profile area, 30 CP		Elective area, 30 CP*	
	Module <b>Data Science in the Life Sciences</b> 15 CP	Module Ethics and Policy Questions 5 CP	Profile modules from the chosen Profile area <b>Data Science</b> totaling at least 10 CP	Optional modules (profile and elective modules) totaling 20 CP
Module Research Internship 10 CP				
3. FS 30 CP				
4. FS 30 CP	Master's thesis with accompanying colloquium 30 CP			

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

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### 3. Profile area **Advanced Algorithms**

Semester	Fundamental study portion, 30 CP			
1. FS 30 CP	Module Foundations in Computer Science 6 CP	Module Foundations in Mathematics and Statistics 6 CP	Module Foundations in Bio-Medicine 6 CP	Module Introduction to Focus Areas 12 CP
2. FS 30 CP	Profile area, 30 CP		Elective area, 30 CP*	
	Module <b>Advanced Algorithms for Bioinformatics</b> 10 CP	Module Ethics and Policy Questions 5 CP	Profile modules from the chosen Profile area <b>Advanced Algorithms</b> totaling at least 10 CP	Optional modules (profile and elective modules) totaling 20 CP
3. FS 30 CP	V-Module <b>Methods in Life Sciences</b> 5 CP	Module Research Internship 10 CP		
4. FS 30 CP	Master's thesis with accompanying colloquium 30 CP			

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