

## Annex 1: Global map of study subjects - Bachelor's Program in Bioinformatics (2019)

1 <sup>st</sup> Semester (WS)		2 <sup>nd</sup> Semester (SS)		3 <sup>rd</sup> Semester (WS)		4 <sup>th</sup> Semester (SS)		5 <sup>th</sup> Semester (WS)		6 <sup>th</sup> Semester (SS)	
USB Budweis		USB Budweis		JKU Linz		JKU Linz		USB Budweis		JKU Linz	
Subject/Module	ECTS	Subject/Module	ECTS	Subject/Module	ECTS	Subject/Module	ECTS	Subject/Module	ECTS	Subject/Module	ECTS
Python Basics	4	Applied Programming	3	Information Systems	6	Artificial Intelligence in Life Sciences	3	Parallel Programming	4	Information Systems	6
Algorithms and Data Structures	4	Calculus II	5	Genome Analysis & Transcriptomics and Structural Bioinformatics	9	Genome Analysis & Transcriptomics and Structural Bioinformatics	6	Biostatistics	5	Bachelor's Thesis	6
Calculus I	6	Probability and mathematical statistics I	3	Machine Learning	3	Organic Chemistry	3	Bioinformatics Project	8	Area of Specialisation (USB/JKU)	9,5
Linear Algebra	3	Introduction to Bioinformatics	6	Bioanalytics	4,5	Area of Specialisation	13	Computational Chemistry and Molecular Modelling of Biomolecules	4	Bachelor's Examination (USB)	4
Biology of Microorganisms	4	Diversity of life	5	Organic Chemistry	3	Free Electives	3	Molecular Phylogenetics	6	Free Electives	3
Molecular Biology and Genetics	3	Introduction to Genomics	3	English for Scientists	3			Area of Specialisation	3		
Ethics	3	General Chemistry	3	Gender Studies	3			Free Electives	3		
Introduction to Cell Biology	1	Academic Writing for Cross Border Studies	3								
28		31		31,5		28		33		28,5	

Total: 180,00