

MINOR PROGRAM DESCRIPTION and INFORMATION	
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Program Name		Bioinformatics Minor Program				
Faculty/Department Name		Faculty of Engineering and Natural Sciences / Molecular Biology and Genetics				
COMPULSORY COURSES						
CODE	COURSE	T	I	L	CREDIT	ECTS
CMPE242	Data Structures and Algorithms	3	0	2	4	6
MBG310	Advanced Programming and Biopython	3	0	2	4	6
					Compulsory Courses Total: 12 ECTS	
ELECTIVE COURSES						
CODE	COURSE	T	I	L	CREDIT	ECTS
CMPE140*1	Computer Programming I	2	2	0	3	6
CMPE201	Discrete Computational Structures	3	0	0	3	6
CMPE304*1	Graph Theory	3	0	0	3	6
FENS300	Numerical Methods	2	2	0	3	5
INE313	Statistical Decision Making	3	0	0	3	6
KHAS1038	Applied Machine Learning Without Coding	3	0	0	3	5
MBG304	Introduction to Bioinformatics	3	0	0	3	5
MBG309*2	Introduction to Programming via Python	2	2	0	3	6
MBG320	Molecular Modeling and Simulation	3	0	0	3	5
MBG427	Bioinformatics and Sequence Analysis	3	0	0	3	5
MBG428	Structural Bioinformatics	3	0	0	3	5
MBG429	Proteins in Action	3	0	0	3	5
MBG432	Computer Aided Drug Design	3	0	0	3	5
MIS311*1	Decision Support Systems	3	0	0	3	6
PH321	Statistical Physics and Thermodynamics	3	0	0	3	6
					Elective Courses Total: 20 ECTS	
Total: 32 ECTS						