

## Master of Science (M.Sc.) in Genetics and Bioengineering

Course Group	ECTS	Course Code	Course name	Course type	ECTS	Pre-requisite
elective	36	BIO501	Advanced Molecular Biology	elective	6	
		BIO502	Recent Advances in Biosciences	elective	6	
		BIO504	Personalized Medicine	elective	6	
		BIO507	Advanced Protein Engineering	elective	6	
		BIO508	Advanced Genetic Engineering	elective	6	
		BIO509	Scientific Research methods	elective	6	
		BIO510	Bioprocess engineering	elective	6	
		BIO511	Biomaterials	elective	6	
		BIO512	Biostatistics	elective	6	
		BIO513	Advanced Cell Biology	elective	6	
		BIO514	O-mics technology	elective	6	
		BIO515	Bio-Imaging systems	elective	6	
		BIO516	Advanced Bio-Chemical engineering	elective	6	
		BIO517	Biosensors instrumentation and technology	elective	6	
BIO518	Special Topics in Life Sciences 1	elective	6			
required	24	BIO590	<b>Master Thesis</b>	<b>required</b>	<b>24</b>	
<b>total</b>	<b>60</b>					

### Graduate Studies: summary of conditions for successful completion of studies

Category	ECTS	Note:
Courses	36	Level 500 or higher level courses (not more than two courses of level 400 can be accepted). During the first week, it is mandatory that new graduate students take the Laboratory Safety Training (non credit) prior to starting working in the laboratory. New graduate students need to complete the following safety trainings: 1. General safety and Emergency 2. Chemical Safety for Laboratories and 3. Bio safety.
Master degree project with thesis	24	
Total	60	

*Last update: 29 September, 2023; IUS-SENATE-11-2910/2023*