



**BIOTECHNOLOGY PhD Program on BSc.**

<b>REMEDIAL COURSES</b>				
<b>Dept.</b>	<b>Code</b>	<b>Course Name</b>	<b>CR.</b>	<b>ECTS</b>
CHEM	205	Introduction to Organic Chemistry and Biomacromolecules	NC	NC
GBE	203	Microbiology	NC	NC
GBE	205	Cell Biology	NC	NC
GBE	212	Classical and Molecular Genetics	NC	NC
GBE	222	Biometrics: Numerical and statistical methods for bioengineering applications	NC	NC
GBE	301	Biochemistry I	NC	NC
GBE	326	Experimental GBE I: Principles	NC	NC
GBE	341	Techniques in Genetic Engineering I	NC	NC
GBE	361	Biotransport Phenomena I	NC	NC
GBE	403	Molecular Biology I	NC	NC
<b>PROGRAM COURSES</b>				
<b>Dept.</b>	<b>Code</b>	<b>Course Name</b>	<b>CR.</b>	<b>ECTS</b>
BTEC	501	Basic Biotechnology	3	10
BTEC	555	Biostatistics	3	10
BTEC	560	Scientific Research Methods in Genetic Engineering	3	10
BTEC	604	Current Topics in Biotechnology	3	10
BTEC	667	Applied Biostatistics and Experimental Design	3	10
BTEC	5XX	Department Elective I	3	8
BTEC	5XX	Department Elective II	3	8
BTEC	5XX	Department Elective III	3	8
BTEC	5-6XX	Department Elective IV	3	8
BTEC	6XX	Department Elective V	3	8
BTEC	6XX	Department Elective VI	3	8
BTEC	6XX	Department Elective VII	3	8
BTEC	6XX	Department Elective VIII	3	8
BTEC	6XX	Department Elective IX	3	8
BTEC	690	PhD Seminar	NC	2
BTEC	691	Independent Study for Qualifying Exam	NC	30
BTEC	700	PhD Dissertation	NC	150
TOTAL Credits:			42	304
<b>EXTRA/NON-DEGREE COURSES</b>				
<b>Dept.</b>	<b>Code</b>	<b>Course Name</b>	<b>CR.</b>	<b>ECTS</b>
		Extra/Non-degree	NC	NC

<b>Course Group</b>	<b>Description</b>
Remedial Courses	Undergraduate level courses offered by department
Department Elective I-III	Restricted BTEC departmental courses in 5XX pool, by approval of advisor and BTEC department.
Department Elective IV	Restricted BTEC departmental courses in 5XX and 6XX pool, by approval of advisor and BTEC department.
Department Elective V-IX	Restricted BTEC departmental courses in 6XX pool, by approval of advisor and BTEC department.
Extra/Non-degree	Optional non-credit (NC) courses that are not part of the program.