

**CHEMICAL ENGINEERING MSc Program**

REMEDIAL COURSES				
Dept.	Code	Course Name	CR.	ECTS
CHBE	215	Material and Energy Balances	NC	
CHBE	232	CHBE I : Fluid Mechanics	NC	
CHBE	331	CHBE II : Heat Transfer	NC	
CHBE	333	CHBE III : Mass Transfer	NC	
CHBE	362	Reactor Design	NC	
MATH	241	Differential Equations	NC	
PROGRAM COURSES				
Dept.	Code	Course Name	CR.	ECTS
CHBE	512	Modeling and Analysis of Chemical Engineering Systems	3	10
CHBE	514	Advanced Engineering Thermodynamics	3	10
CHBE	534	Transport Phenomena	3	10
		Departmental Elective I	3	7
		Departmental Elective II	3	7
		Area Elective I	3	10
		Free Elective I	3	7
CHBE	590	Research Seminar	NC	2
CHBE	600	MSc Thesis	NC	60
		TOTAL	21	123
EXTRA/NON-DEGREE COURSES				
Dept.	Code	Course Name	CR.	ECTS
		Extra/Non-degree	NC	

Course Group	Description
Departmental Elective I-II	Chemical Engineering courses under the GSNAS.
Area Elective I	BTEC 550, ESYE 501.
Free Elective I	Unrestricted, by approval of advisor and CHEM department.
Extra/Non-degree	Optional non-credit (NC) courses that are not part of the program.
Remedial Courses	Undergraduate level courses offered by department.