



STUDY PLAN (*developed*) FOR THE BACHELOR DEGREE IN CHEMICAL ENGINEERING

(College of Engineering)

FIRST YEAR

FIRST SEMESTER						
CODE	COURSE TITLE	CRED	LECT	LAB	PRE-REQUISITE	CO-REQUISITE
MATH 101	Calculus I	4	4	0	-	PHYS 101
CHEM 101	General Chemistry I	4	3	3	-	-
PHYS 101	General Physics I	4	3	3	-	MATH 101
ENGL 100	English Language	2	2	0	-	-
ICS 103	Computer Program	3	2	3	-	MATH 101
TOTAL (CREDIT)		17				

SECOND SEMESTER						
CODE	COURSE TITLE	CRED	LECT	LAB	PRE-REQUISITE	CO-REQUISITE
MATH 102	Calculus II	4	4	0	MATH 101	PHYS 102
CHEM 102	General Chemistry II	4	3	3	CHEM 101	-
PHYS 102	General Physics II	4	3	3	PHYS 101	MATH 102
ENGL 102	English Composition II	3	3	0	ENGL 100 or ENGL 101	-
IC 111	Islamic Culture	2	2	0	-	-
TOTAL (CREDIT)		17				

SECOND YEAR

FIRST SEMESTER						
CODE	COURSE TITLE	CRED	LECT	LAB	PRE-REQUISITE	CO-REQUISITE
CHE 201	Intro. to Chem. Eng.	3	3	0	CHEM 102 & PHYS 102	-
MATH 201	Calculus III	3	3	0	MATH 102	-
CHEM 201	Organic Chemistry I	4	3	3	CHEM 102	-
ME 205	Material Science	3	2	3	CHEM 101 & MATH 102	-
ENGL 214	Technical Report Writing	3	3	0	ENGL 102	-
ARB 100	Arabic Languages Skills	2	2	0	-	-
TOTAL (CREDIT)		18				

SECOND SEMESTER						
CODE	COURSE TITLE	CRED	LECT	LAB	PRE-REQUISITE	CO-REQUISITE
CHE 203	Chem. Eng. Thermo. I	3	3	0	CHE 201 & MATH 201	-
CHE 204	Transport Phenomena I	3	3	0	-	MATH 202 & CHE 203
MATH 202	Elements of . Diff. Equations	3	3	0	MATH 201	-
CHE 202	Biochemical Engineering	3	3	0	CHEM 201	-
EDUC 115	Work Values and Ethics	2	2	0	-	-
ETEC 115	Computer and Information	2	2	0	-	-
ISE 301	Numerical Methods	3	3	0	ICS 103 & MATH 201	-
TOTAL (CREDIT)		19				

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THIRD YEAR

FIRST SEMESTER						
CODE	COURSE TITLE	CRED	LECT	LAB	PRE-REQUISITE	CO-REQUISITE
CHE 300	Transport Phenomena II	3	3	0	CHE 204	-
CHE 303	Chem. Eng. Thermo II	3	3	0	MATH 202 & CHE 203	-
CHE 304	Transport Phenomena III	3	3	0	CHE 204	CHE 300
CHEM 311	Physical Chemistry II	4	3	3	CHE 203	-
CHEM 326	Analytical Chemistry	3	2	3	CHE 202	-
EDUC 125	Entrepreneurship	2	2	0	-	-
TOTAL (CREDIT)		18				

SECOND SEMESTER						
CODE	COURSE TITLE	CRED	LECT	LAB	PRE-REQUISITE	CO-REQUISITE
CHE 306	Stage-wise Operations	3	3	0	CHE 303 & CHE 304	-
CHE 309	Chem. Eng. Lab I	2	0	6	CHE 300 & ENGL 214	CHE 304
GS XXX	General Studies Elective	3	3	0		
CRCL 115	University Life Skills	3	3	0	-	-
CHE 326	Chem. Eng. Modeling & Simulation	1	0	3	-	CHE 306
ISE 205	Engineering Prob. & Stats.	3	3	0	MATH 201	-
CHE 401	Process Dyn. & Ctrl	3	3	0	-	CHE 306
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TOTAL (CREDIT)		18				

SUMMER SESSION

CODE	COURSE TITLE	CRED
CHE 350	Cooperative Work	0
TOTAL (CREDIT)		

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FOURTH YEAR

FIRST SEMESTER						
CODE	COURSE TITLE	CRED	LECT	LAB	PRE-REQUISITE	CO-REQUISITE
CHE 351	Cont. Of Coop Work	9	0	9	ENGL 214, CHE 306, CHE 309, CHE 325	-
TOTAL (CREDIT)		9				

SECOND SEMESTER						
CODE	COURSE TITLE	CRED	LECT	LAB	PRE-REQUISITE	CO-REQUISITE
CHE 402	Kinetics & Reactor Design	3	3	0	CHE 303 & CHEM 311	-
CHE 425	Eng. Econ. & Design	3	3	0	CHE 306	CHE 402
CHE 409	Chem. Eng. Lab II	2	0	6	CHE 306 & CHE 309	CHE 401 & CHE 402
CHE 495	Integrated Design Course	3	1	6	CHE 351 or CHE 350	CHE 425
CHE 4XX	Chem. Eng. Elective	3	3	0	-	-
XE XXX	Technical Elective	3	3	0	-	-
TOTAL (CREDIT)		17				

