

DETAILED CHEMICAL ENGINEERING COURSE PLAN (2008–2009)

FRESHMAN YEAR

Fall Semester				
Code	Course Title	Credit Hour	Hour a week	
			Lecture	Lab
CHEM 131	General Chemistry I	4	5	3
PEEG 151	Overview of Petroleum Industry	3	3	0
MATH 111	Calculus I	4	5	0
COMM 101	Communication I	4	5	0
ENGR 103	Engineering Seminar	1	2	0
HFIT 101	Physical Education I	0.5		
TOTAL		16.5		

Spring Semester				
Code	Course Title	Credit Hour	Hour a week	
			Lecture	Lab
CHEM 181	General Chemistry II	4	5	3
PHYS 191	Physics I	4	5	3
MATH 161	Calculus II	4	5	0
COMM 151	Communication II	4	5	0
HFIT 102	Physical Education II	0.5		
TOTAL		16.5		

SOPHOMORE YEAR

Fall Semester				
Code	Course Title	Credit Hour	Hour a week	
			Lecture	Lab
CHEM 201	Organic Chemistry I	4	3	4
PHYS 241	Physics II	4	5	3
MATH 212	Calculus III	3	4	0
STPS 201	Engineering Practices I	3	2	3
H&SS 251	Principles of Economics	3	3	0
TOTAL		17		

Spring Semester				
Code	Course Title	Credit Hour	Hour a week	
			Lecture	Lab
CHEM 241	Organic Chemistry II	4	3	4
CHEG 201	Principles of Chemical Eng.	4	4	0
MATH 261	Differential Equations	3	3	0
CHEG 220	Computational Methods in CHE	3	2	2
H&SS 111	Islamic Studies	3	3	0
TOTAL		17		

JUNIOR YEAR

Fall Semester				
Code	Course Title	Credit Hour	Hour a week	
			Lecture	Lab
CHEG 301	Fluid Mechanics	3	3	0
CHEG 322	Chemical Eng. Thermodynamics	3	3	0
CHEG 331	Designed Experimentation	4	4	0
STPS 251	Engineering Practices II	3	3	0
H&SS	H&SS Elective	3	3	0
TOTAL		16		

Spring Semester				
Code	Course Title	Credit Hour	Hour a week	
			Lecture	Lab
CHEM 301	Physical Chemistry	4	3	3
CHEG 351	Mass Transfer	3	3	0
CHEG 361	Heat Transfer	3	3	0
CHEG 333	Chemical Eng. Laboratory I	2	0	3
TBA	Technical Elective	3	3	0
TOTAL		15		

Summer Session

CHEG 399	Chemical Eng. Internship	3	0	0
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SENIOR YEAR

Fall Semester				
Code	Course Title	Credit Hour	Hour a week	
			Lecture	Lab
CHEG 401	Engineering Economics	3	3	0
CHEG 411	Reaction Engineering	4	3	3
CHEG 431	Chemical Eng. Design I	3	3	0
CHEG 444	Chemical Eng. Laboratory II	2	0	3
TBA	Technical Elective	3	3	0
TOTAL		15		

Spring Semester				
Code	Course Title	Credit Hour	Hour a week	
			Lecture	Lab
CHEG 421	Petroleum Refining	3	3	0
CHEG 451	Chemical Eng. Design II	3	3	0
CHEG 461	Process Dynamics & Control	4	3	3
CHEG 481	Gas Processing	3	3	0
TBA	Technical Elective	3	3	0
TOTAL		16		

Total Credit Hours

132

Revised: 11-Nov-08