

DOCTOR OF PHILOSOPHY IN CHEMICAL ENGINEERING

Curriculum Structure

The PhD Program (Total 60 Cr Hrs)

Curriculum Components	Total Courses	Total Cr Hrs
Core Courses	1	3
Elective Courses in Major	3	9
Thesis	1	48
Total	5	60

Core courses

Core courses			
Course ID	Course Title		
DENG 702	Applied Research Methodology		

Concentration Courses

Elective courses			
Course ID	Course Title		
CHME 750	Transport Phenomena		
CHME 751	Special Topics I		
CHME 752	Special Topics II		
CHME 753	Advanced Process Dynamics and Control		
CHME 761	Bioprocess Engineering		
CHME 762	Advanced Chemical Engineering Thermodynamics		
CHME 763	Advanced Reaction Engineering		

Study Plan

First Semester (6 Cr Hrs)				
Term	Course #	Course Title	Cr Hrs	
Fall	DENG 702	Applied Research Methodology	3	
	CHME XXX	Elective Course I	3	
		Total	6	
Second	Second Semester (6 Cr Hrs)			
Term	Course #	Course Title	Cr Hrs	
Spring	CHME XXX	Elective Course II	3	
	CHME XXX	Elective Course III	3	
		Total	6	

Third Semester (12 Cr Hrs)				
Term	Course #	Course Title		Cr Hrs
Fall	CHME 899	PhD Thesis		12
	Z)	Candidacy Exam		
			Total	12
Fourth 9	/40	Cu Huo)		
i ourtii s	Semester (12	Cr Hrs)		
Term	· ·	Course Title		Cr Hrs
	· ·	Course Title		Cr Hrs
Term	Course #	Course Title		011110

Fifth Semester (12 Cr Hrs)				
Term	Course #	Course Title		Cr Hrs
Fall	CHME 899	PhD Thesis		12
			Total	12
Sixth Semester (12 Cr Hrs)				
JIXIII JE	emester (12 C	or Hrs)		
Term		Course Title		Cr Hrs
		Course Title		Cr Hrs
Term	Course #	Course Title		



