

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 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
		Candidacy Exam	
Total			12
Fourth Semester (12 Cr Hrs)			
Term	Course #	Course Title	Cr Hrs
Spring	CHME 899	PhD Thesis	12
Total			12
Fifth Semester (12 Cr Hrs)			
Term	Course #	Course Title	Cr Hrs
Fall	CHME 899	PhD Thesis	12
Total			12
Sixth Semester (12 Cr Hrs)			
Term	Course #	Course Title	Cr Hrs
Spring	CHME 899	PhD Thesis	12
		Oral Defense	
Total			12

