

DOCTOR OF PHILOSOPHY IN MATERIAL SCIENCE AND 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
DENG 704	Project Management
MECH 726	Advanced Physical Metallurgy
MSCE 761	Special Topics I
MSCE 762	Special Topics II

Study Plan

First Semester (6 Cr Hrs)			
Term	Course #	Course Title	Cr Hrs
Fall	DENG 702	Applied Research Methodology	3
	MSCE XXX	Elective Course I	3
	Total		6

Second Semester (6 Cr Hrs)			
Term	Course #	Course Title	Cr Hrs
Spring	MSCE XXX	Elective Course II	3
	MSCE XXX	Elective Course III	3
	Total		6

Third Semester (12 Cr Hrs)			
Term	Course #	Course Title	Cr Hrs
Fall	MSCE 899	PhD Thesis	12
		Candidacy Exam	
	Total		12

Fourth Semester (12 Cr Hrs)			
Term	Course #	Course Title	Cr Hrs
Spring	MSCE 899	PhD Thesis	12
	Total		12

Fifth Semester (12 Cr Hrs)			
Term	Course #	Course Title	Cr Hrs
Fall	MSCE 899	PhD Thesis	12
	Total		12

Sixth Semester (12 Cr Hrs)			
Term	Course #	Course Title	Cr Hrs
Spring	MSCE 899	PhD Thesis	12
		Oral Defense	
	Total		12

