

MASTER OF SCIENCE IN GAS AND PROCESS ENGINEERING

Curriculum Structure

The Program (Total 30 Cr Hrs)

Curriculum Component	Thesis Option		Project Option	
	Total Courses	Total Cr Hrs	Total Courses	Total Cr Hrs
Required College Core Courses	2	3	2	3
Required Major Core Courses	4	12	4	12
Elective Courses	3	9	4	12
Thesis Option	1	6	-	-
Project Option	-	-	1	3
Total	10	30	11	30

Program Courses

Required College Core Courses (3 Cr Hrs)		
Course ID	Course Title	Cr Hrs
GENG 602	Applied Research Methodology	3
GENG 606	Graduate Seminar	0

Required Major Core Courses (12 Cr Hrs)		
Course ID	Course Title	Cr Hrs
CHME 668	Downstream gas processing, Analysis, Utilization and Safety	3
CHME 669	Technologies for Gas Produced Water Treatment	3
CHME 660	Advanced Modeling, Control, and Optimization	3
CHME 666	Advanced Application in Gas Processing	3

Elective Courses (12 Cr Hrs)		
Course ID	Course Title	Cr Hrs
CHME 661	Catalysis	3
CHME 662	Advanced Biochemical Engineering	3
CHME 663	Advanced Corrosion Engineering	3
CHME 664	Chemical Engineering Process Intensification	3
CHME 665	Advanced Special Topics	3
CHME 658	Advanced Thermodynamics	3
CHME 659	Advanced Chemical Reaction Engineering & Reactor Design	3

Thesis Option Requirements (6 Cr Hrs)

Thesis Option Requirements		
Course ID	Course Title	Cr Hrs
CHME 695	Master Thesis-I	3
CHME 695	Master Thesis-II	3

Project Option Requirements (6 Cr Hrs)

Project Option Requirements		
Course ID	Course Title	Cr Hrs
CHME 6XX	Elective Courses IV	3
CHME 690	Master Project	3



STUDY PLAN

Thesis Option

First Year (18 Cr Hrs)		
Fall Semester		
Course #	Course Title	Cr Hrs
GENG 602	Applied Research Methodology	3
GENG 606	Graduate Seminar	0
CHME 6XX	Major Core Courses. I	3
CHME 6XX	Major Core Courses. II	3
Spring Semester		
Course #	Course Title	Cr Hrs
CHME 6XX	Major Core Courses. III	3
CHME 6xx	Major Core Courses. IV	3
CHME 6xx	Elective Courses in Concentration I	3

Second Year (12 Cr Hrs)		
Fall Semester		
Course #	Course Title	Cr Hrs
CHME 695	Master Thesis	3
CHME 6xx	Elective Courses II	3
CHME 6xx	Elective Courses III	3
Spring Semester		
Course #	Course Title	Cr Hrs
CHME 695	Master Thesis	3

Project Option

First Year (18 Cr Hrs)		
Fall Semester		
Course #	Course Title	Cr Hrs
GENG 602	Applied Research Methodology	3
GENG 606	Graduate Seminar	0
CHME 6xx	Major Core Courses. I	3
CHME 6xx	Major Core Courses. II	3
Spring Semester		
Course #	Course Title	Cr Hrs
CHME 6XX	Major Core Courses. III	3
CHME 6xx	Major Elective. IV	3
CHME 6xx	Elective Courses	3

Second Year (12 Cr Hrs)		
Fall Semester		
Course #	Course Title	Cr Hrs
CHME 6xx	Elective Courses II	3
CHME 6xx	Elective Courses III	3
CHME 6xx	Elective Courses IV	3
Spring Semester		
Course #	Course Title	Cr Hrs
CHME 690	Master Project	3

