



Sultan Qaboos University

Academic Degree and Degree Plan of Postgraduate Studies Program

College	Engineering		
Department	Petroleum & Chemical Engineering	Degree	M.Sc.
Program- Major	Chemical & Process Engineering	Cohort	2025-2026
Specialization	Chemical & Process Engineering	Mode of Study	☐ Full time ☐ Part time ☒ Both

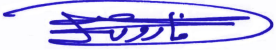
Credit Required for Graduation	30	
Core Courses	Thesis	Elective Courses
12	6	12

Program Option		
☒ Courses and Thesis	☐ Thesis Only	☐ Courses Only
☐ Courses & Examination		

Core Courses		
Course Code	Course Title	Credits
CHPE6100	Advanced Transport Phenomena	3
CHPE6200	Advanced Chem. Eng. Thermodynamics	3
CHPE6300	Advanced Chemical Reaction Engineering	3
ENGR6913	Advanced Engineering Mathematics	3
Total		12

Elective Courses		
Course Code	Course Title	Credits
CHPE5612	Chemical Process Safety	3
CHPE6110	Advanced Process Analysis and Control	3
CHPE6210	Advanced Heat Transfer	3
CHPE6310	Advanced Mass Transfer	3
CHPE6312	Advanced Carbon Capture, Utilization and Storage	3
CHPE6410	Desalination Processes	3
CHPE6510	Process Optimization	3

CHPE6610	Green Engineering	3
CHPE6710	Industrial Wastewater Treatment	3
CHPE6810	Polymer Science and Engineering	3
CHPE6910	Catalysis	3
CHPE6500	Biochemical Engineering	3
CHPE6600	Nanocomposite Engineering Materials	3
CHPE6900	Special Topics	3
CHPE6212	Directed Studies	3
CIVL 6715	Chemistry & Microbiology of Water & Wastewater	3
CIVL 6725	Physical-Chemical-Biological Treatment Processes	3
CIVL 6740	Industrial Waste Management	3
CIVL 6750	Air Pollution Engineering	3
ENGR6000	Research Methodology and Ethics in Engineering	3
ENGR6910	Advanced Engineering Probability and Statistics	3
ENGR6911	Advanced Engineering Management	3
ENGR6912	Engineering Economic Decision Analysis	3
ENGR6920	Renewable Energy Systems	3
Total		12
Thesis		
Course Code	Course Title	Credi
CHPE7002	CHPE Master Thesis	6
Total		6

Approval and Signatures		
Program Coordinator:	Head of Department:	Assistant Dean for Postgraduate Studies and Research:
Prof. Farouk S. Mjalli 	Dr. Rashid Al-Hajri 	Dr. Majid Al-Maharbi 