



**Sultan Qaboos University**  
**Academic Degree and Degree Plan of Postgraduate Studies Program**

<b>College</b>	Engineering		
<b>Department</b>	Petroleum & Chemical Engineering	<b>Degree</b>	M.Sc.
<b>Program- Major</b>	Chemical & Process Engineering	<b>Cohort</b>	2024-2025
<b>Specialization</b>	Chemical & Process Engineering	<b>Mode of Study</b>	<input type="checkbox"/> Full time <input type="checkbox"/> Part time <input checked="" type="checkbox"/> Both

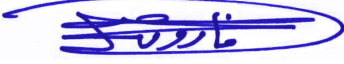

<b>Credit Required for Graduation</b>	30	
<b>Core Courses</b>	<b>Thesis</b>	<b>Elective Courses</b>
12	6	12

Program Option		
<input checked="" type="checkbox"/> Courses and Thesis	<input type="checkbox"/> Thesis Only	<input type="checkbox"/> Courses Only
<input type="checkbox"/> 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
<b>Total</b>		<b>12</b>

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
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
ENGR6910	Advanced Engineering Probability and Statistics	3
ENGR6911	Advanced Engineering Management	3
ENGR6912	Engineering Economic Decision Analysis	3
ENGR6913	Advanced Engineering Mathematics	3
ENGR6920	Renewable Energy Systems	3
<b>Total</b>		<b>12</b>
<b>Thesis</b>		
<b>Course Code</b>	<b>Course Title</b>	<b>Credits</b>
CHPE7002	CHPE Master Thesis	6
<b>Total</b>		<b>6</b>

Approval and Signatures		
<b>Program Coordinator:</b>	<b>Head of Department:</b>	<b>Assistant Dean for Postgraduate Studies and Research:</b>
Prof. Farouk S. Mjalli 	Dr. Rashid Al-Hajri 	Dr. Nasser Al-Azri