

## B.SC. (Engg) Chemical Engineering

Course Title	Course Code	Course Type	Credit Hour
<b>Semester 1</b>			
<u>GEN(NS)</u>		General	<u>3</u>
Functional English	GENG-101	General	<u>3</u>
Civics and Community Engagement	GCCE-101	General	<u>2</u>
Islamic Studies / Ethics (for Non-Muslims)	GISL-101 / GETH-101	General	<u>2</u>
Chemical Process Industries Lab	CHE-117	Major	<u>1</u>
Chemical Process Industries	CHE-111	Major	<u>3</u>
Tarjuma-e-Quran	HQ-001	Compulsory	<u>0</u>
			<b>Total Credit Hours 14</b>
<b>Semester 2</b>			
<u>GEN(AH)</u>		General	<u>2</u>
Quantitative Reasoning (I)	GQR-101	General	<u>3</u>
Entrepreneurship	GENT-101	General	<u>2</u>
Ideology and Constitution of Pakistan	GICP-101	General	<u>2</u>
Engineering Drawing & Graphics Lab	CHE-129	Major	<u>1</u>
Chemical Engineering Principles-I	CHE-121	Major	<u>2</u>
Tarjuma-e-Quran	HQ-002	Compulsory	<u>1</u>
			<b>Total Credit Hours 13</b>
<b>Semester 3</b>			
Applications of Information and Communication Technologies	GICT-201	General	<u>3</u>
Expository Writing	GENG-201	General	<u>3</u>
Fluid and Particle Mechanics-I	CHE-233	Major	<u>3</u>
Heat Transfer	CHE-232	Major	<u>3</u>
Chemical Engineering Principles-II	CHE-231	Major	<u>2</u>
Tarjuma-e-Quran	HQ-003	Compulsory	<u>0</u>
			<b>Total Credit Hours 14</b>
<b>Semester 4</b>			
<u>GEN(SS)</u>		General	<u>2</u>
Quantitative Reasoning (II)	GQR-202	General	<u>3</u>
Fluid and Particle Mechanics - II	CHE-244	Major	<u>3</u>
Chemical Engineering Thermodynamics-I	CHE-242	Major	<u>3</u>
Particulate Technology	CHE-241	Major	<u>3</u>
Tarjuma-e-Quran	HQ-004	Compulsory	<u>1</u>
			<b>Total Credit Hours 15</b>
<b>Semester 5</b>			
Interdisciplinary		Interdisciplinary	<u>3</u>
Interdisciplinary		Interdisciplinary	<u>3</u>
Separation Processes-I	CHE-354	Major	<u>3</u>
Mass Transfer	CHE-353	Major	<u>3</u>
Chemical Engineering Thermodynamics-II	CHE-351	Major	<u>2</u>
Tarjuma-e-Quran	HQ-005	Compulsory	<u>0</u>
Chemical Reaction Engineering	CHE-356	Major	<u>3</u>
			<b>Total Credit Hours 17</b>
<b>Semester 6</b>			
Internship	CHE-400	Major	<u>0</u>
Product Development Lab	CHE-369	Major	<u>1</u>
major	CHE-	Major	<u>3</u>
Fuels and Energy	CHE-363	Major	<u>3</u>
Separation Processes-II	CHE-361	Major	<u>3</u>
Tarjuma-e-Quran	HQ-006	Compulsory	<u>1</u>
			<b>Total Credit Hours 11</b>
<b>Semester 7</b>			
Instrumentation and Process Control Lab	CHE-478	Major	<u>1</u>
Chemical Process Safety	CHE-476	Major	<u>1</u>
Design Project Part I	CHE-474	Major	<u>3</u>
Instrumentation and Process Control	CHE-473	Major	<u>3</u>
Chemical Plant Design	CHE-471	Major	<u>3</u>
Tarjuma-e-Quran	HQ-007	Compulsory	<u>0</u>
			<b>Total Credit Hours 11</b>
<b>Semester 8</b>			
Design Project Part II	CHE-483	Major	<u>3</u>
Process Design and Optimization Lab	CHE-487	Major	<u>1</u>
Integrated Management Systems	CHE-485	Major	<u>2</u>
Transport Phenomena	CHE-484	Major	<u>3</u>
Process Design and Optimization	CHE-481	Major	<u>3</u>
Tarjuma-e-Quran	HQ-008	Compulsory	<u>1</u>
			<b>Total Credit Hours 13</b>

Signature