

Template of Course Specification  
Name of Course: **Chemistry**

Module Evaluation					
تقييم المادة الدراسية					
		Time/Number	Weight (Marks)	Week Due	Relevant Learning Outcome
Formative assessment	Quizzes	5	15% (15)	2,5,6, 11,12	LO #1,2,4,6,7,8 10 and 11
	Assignments	0	0	-	-
	Projects / Lab.	1	10% (10)	Continuous	
	Report	1	15% (15)	13	LO # 1, 2,3,4,5 and 11
Summative assessment	Midterm Exam	3hr	10% (10)	7	LO # 1-7
	Final Exam	3hr	50% (50)	16	All
Total assessment			100% (100 Marks)		

Delivery Plan (Weekly Syllabus)	
المنهاج الاسبوعي النظري	
	Material Covered
Week 1	Solutions, solution terminology ( solubility, factor influencing solubility, saturated solutions, unsaturated solutions, supersaturated solutions)
Week 2	Dilutions, isotonic solutions, aqueous solutions, ionic solutions, electrolytes and non-electrolytes.

<b>Week 3</b>	Osmosis and osmotic pressure, colloids, emulsifying agents dialysis and living systems
<b>Week 4</b>	Acids& Bases, measuring pH, acid- base titration, buffer solutions, blood buffers and buffering capacity in blood.
<b>Week 5</b>	Nuclear chemistry , Isotopes, Radioactivity, type of radiation, properties of Alpha, Beta and Gamma radiation, Ionizing radiation, Units, detection devices, physiological effects of radiation, radioactive decay series, nuclear reactions, half – life, uses of radioisotopes(especially in medicine).
<b>Week 6</b>	Gases, Ideal gas laws, Boyle, s low, Charle,s low , Gay- Lussac, s low, The combined gas low, and Dalton,s low, Gas low and breathing, the combined gas low, and Dalton, s low, Gas low and breathing
<b>Week 7</b>	Introduction, metabolism (anabolism and catabolism), homeostasis.
<b>Week 8</b>	Blood
<b>Week 9</b>	Carbohydrates (definitions, functional group, characteristics, reactions).
<b>Week 10</b>	Proteins (definitions, functional group, characteristics, reactions).
<b>Week 11</b>	Lipid (definitions, functional group, characteristics, reactions). Lipid profile, Body mass index (BMI).
<b>Week 12</b>	Interpretation of metabolism (pathways of metabolism, disease due to error in metabolism) PART I
<b>Week 13</b>	Interpretation of metabolism (pathways of metabolism, disease due to error in metabolism) PART II
<b>Week 14</b>	Hormones

<b>Week 15</b>	Enzymes,
<b>Week 16</b>	Vitamins and minerals.

### Delivery Plan (Weekly Lab. Syllabus)

المنهاج الاسبوعي للمختبر

	Material Covered
<b>Week 1</b>	Lab 1: introduction , chemical glassware, Laboratory safety practices
<b>Week 2</b>	Lab 2: Melting and Boiling point
<b>Week 3</b>	Lab 3: prepare standard solution
<b>Week 4</b>	Lab 4: Determine the exact concentration of HCl solution (by titration )
<b>Week 5</b>	Lab 5: Identify an unknown chemical mixture
<b>Week 6</b>	Lab 6: Simple or fractional distillation
<b>Week 7</b>	Lab 7: Identify and distinguish carbohydrate
<b>Week 8</b>	Lab 7: Identify and distinguish protein
<b>Week 9</b>	Lab 7: Identify and distinguish lipid + measuring body mass index (BMI)
<b>Week 10</b>	Lab 8: separation of human blood and measure the level of plasma glucose in blood

## Grading Scheme

### مخطط الدرجات

Group	Grade	التقدير	Marks (%)	Definition
Success Group (50 - 100)	A - Excellent	امتياز	90 - 100	Outstanding Performance
	B - Very Good	جدا جيد	80 - 89	Above average with some errors
	C - Good	جيد	70 - 79	Sound work with notable errors
	D - Satisfactory	متوسط	60 - 69	Fair but with major shortcomings
	E - Sufficient	مقبول	50 - 59	Work meets minimum criteria
Fail Group (0 - 49)	FX – Fail	راسب (قيد المعالجة)	(45-49 )	More work required but credit awarded
	F – Fail	راسب	(0-44 )	Considerable amount of work required

**Note:** Marks Decimal places above or below 0.5 will be rounded to the higher or lower full mark (for example a mark of 54.5 will be rounded to 55, whereas a mark of 54.4 will be rounded to 54. The University has a policy NOT to condone "near-pass fails" so the only adjustment to marks awarded by the original marker(s) will be the automatic rounding outlined above.

