



modelUnit Description
Subject Description Form Y
Faculty of Engineering /
Department of



Unit information

Subject information

Unit Title	English language		Unit delivery	
Unit Type	Support		<input checked="" type="checkbox"/> theory <input checked="" type="checkbox"/> present <input checked="" type="checkbox"/> The laboratory <input type="checkbox"/> Educational <input type="checkbox"/> practical <input type="checkbox"/> The seminar	
unity symbol	BME-12-04			
ECTS Credits	8			
SWL (hour/SEM)	30			
Unit level	1	Semester for delivery		
Administration Department	Biomedicine	The college	College of Engineering	
Unit Commander	Saad Mahmoud		e-mail	Saed.mahmud@uowa.edu.iq
Unit Commander Title	Assistant Doctor	Unit Commander Qualifications	PhD	
Unit teacher			e-mail	
Peer Reviewer Name	name	e-mail	e-mail	
Scientific Committee Approval Date	26/9/2024	issue number	1.0	

Relationship with other units

Relationship with other subjects

Prerequisites Unit	nothing	Semester	
Common Requirements Unit	nothing	Semester	

Unit objectives, learning outcomes and guiding content Course objectives, learning outcomes and guiding content	
Unit objectives Subject objectives	English language study aims to improve global communication skills and enhance career and academic opportunities. Teaching strategies include blended learning, interactive learning, and learning using technology. Academic outcomes include language proficiency, the ability to read scientific research, and interact in multicultural environments.
Unit learning outcomes Learning outcomes for the subject	<ol style="list-style-type: none"> 1. Master basic skills: such as reading, writing, listening, and speaking. 2. Critical and creative thinking: Develop the ability to analyze information and make logical decisions. 3. Social Interaction: The ability to interact effectively in diverse social and professional settings. 4. Specialized knowledge: the acquisition of knowledge in a particular field of study or specialization. 5. Independence and self-learning: the ability to continuously learn and achieve goals independently
Guidance Contents Guidance Contents	<ol style="list-style-type: none"> 1. Educational information: Provides basic concepts and principles to support the learning and thinking process. 2. Procedures and steps: Clear instructions on how to do certain tasks or activities. 3. Tips and tricks: Guidance to help improve performance or achieve better results. 4. Tools and Resources: A list of helpful resources such as books, websites, or apps. 5. Cultural and behavioral guidelines: Tips on how to handle social or professional situations appropriately.

Learning and teaching strategies Learning and teaching strategies	
Strategies	<ul style="list-style-type: none"> • Interactive learning: Encouraging students to participate in classroom activities such as discussions, presentations, and problem solving.. • Blended learning: merging traditional education with technological tools such as online platforms to stimulate self-learning.. • Project-based learning: Students learn by working on real-world projects, helping to reinforce practical skills.. • Collaborative Learning: Encouraging teamwork among students to improve collaboration and knowledge sharing.. • Performance-oriented instruction: Guiding students to improve their academic performance through continuous assessments and clear goals..

Student workload(SWL)			
The student's academic load is calculated for 15 weeks.			
SWL Regulator (h/sem) Regular student load during the semester	78	SWL Regulator (H/W) Regular weekly student load	5
SWL unregulated (h/sem) Irregular student load during the semester	72	SWL unregulated (h/w) Irregular student load per week	5
totalSWL (h/sem) The student's total academic load during the semester	30		

Unit Evaluation					
Course material evaluation					
like		time/number	Weight (in marks)	Due week	Related learning outcomes
Formative assessment	Competitions	2	10% (10)	5, 10	LO#1, 2, 10, 11
	Appointments	2	10% (10)	2, 12	LO #3, 4, 6, 7
	Projects/The laboratory.	1	10% (10)	continuous	all
	a report	1	10% (10)	13	LO #5, 8, and 10
Final evaluation	Midterm Exam	2 s	10% (10)	7	LO #1-7
	Final Exam	2 hours	50% (50)	16	all
Overall Rating			100%(100 degrees)		

Delivery Plan (Weekly Syllabus)	
Theoretical weekly curriculum	
week	Covered Materials
Week 1	Introduction to Chemistry: Preparation of solutions, molarity, molality, reagents, acids
Week 2	alkaline, buffer solution, concentration, titration
Week 3	Proteins, protein metabolism, protein synthesis, protein catalysis, protein anabolism, protein fate, amino acids
Week 4	Amino acid interaction, relationship of amino acids to other molecules Protein synthesis, translation, transcription, globulin, albumin
Week 5	Liver function tests, bilirubin, GOT and AST, ALP, renal function tests, urea, creatinine and uric acid
Week 6	Lipid metabolism, lipid synthesis, lipid synthesis, alternative pathway, lipid degradation, fatty acids
Week 7	Midterm Exam

The week8	Cholesterol, triglycerides,HDL, LDL, ketone bodies, bile salt, lipase
The week9	Carbohydrates, glucose metabolism, glucose synthesis, glycolysis, glycogenolysis cycles, glycogen synthesis, gluconeogenesis
week10	diabetes, high blood sugar,HbA1C, Fasting Glucose, Fructose, Sucrose, Lactose
Week 11	Enzymes, enzyme metabolism, types of enzymes, enzyme function, enzyme structure
Week 12	Liver enzymes, kidney enzyme, digestive enzyme, coenzyme, glycolytic enzymes
Week 13	Hormones, hormone composition, types of hormones, function of hormones, hormone receptors, pituitary gland hormones
Week 14	Thyroid hormones, adrenal hormones, sex hormones, digestive hormones, penile hormones
Week 15	DNADNA, RNA, guanine, thiamine, cytosine, adenine, uracil
Week 16	Preparatory week before the final exam

Learning and teaching resources		
Learning and teaching resources		
	text	Available in the library?
Required texts	Clinical Biochemistry,(8 editions), by Leipencotts	Yes
Recommended Texts		Yes
Websites		

Grading chart				
Grading chart				
group	degree	Appreciation	Tags(%)	identification
Success Group (50 - 100)	A -excellent	privilege	90 - 100	Outstanding performance
	for -very good	very good	80 - 89	Above average with some errors
	G -good	good	70 - 79	Good work with noticeable errors.
	D -Satisfactory	middle	60 - 69	Fair but with major shortcomings
	h -Enough	acceptable	50 - 59	The work meets minimum standards.
Group failure (0 – 49)	FX -to fail	Failed(Under Processing)	(45-49)	More work needed but credit given
	F -to fail	Failed	(0-44)	A lot of work required.

note:Marks that are 0.5 decimal places above or below the highest or lowest full mark will be rounded off (e.g. a mark of 54.5 will be rounded off to 55, while a mark of 54.4 will be rounded off to 54. The University has a policy of not condoning 'imminent pass failure', so the only adjustment to marks awarded by the original mark(s) will be the automatic rounding described above.