

Course Description

English Language MODULE DESCRIPTION FORM

نموذج وصف المادة الدراسية

Module Information			
معلومات المادة الدراسية			
Module Title	English Language		Module Delivery
Module Type	Support		<input checked="" type="checkbox"/> Theory
Module Code	UNI-123		<input checked="" type="checkbox"/> Lecture
ECTS Credits	3		<input type="checkbox"/> Lab
SWL (hr/sem)	75		<input type="checkbox"/> Tutorial
			<input type="checkbox"/> Practical
			<input type="checkbox"/> Seminar
Module Level	1	Semester of Delivery	2
Administering Department	Bio	College	Sci
Module Leader	Saad T. Mutlk	e-mail	Saad.t.mutalk@uoanbar.edu.iq
Module Leader's Acad. Title	Lecturer	Module Leader's Qualification	Ph.D
Module Tutor		e-mail	
Peer Reviewer Name		e-mail	
Scientific Committee Approval Date	01/06/2023	Version Number	1.0

Relation with other Modules

العلاقة مع المواد الدراسية الأخرى

Prerequisite module	None	Semester	
Co-requisites module	None	Semester	

Module Aims, Learning Outcomes and Indicative Contents

أهداف المادة الدراسية ونتائج التعلم والمحتويات الإرشادية

<p>Module Objectives</p> <p>أهداف المادة الدراسية</p>	<p>to enable the learner to communicate effectively and appropriately in real life situation:</p> <p>b. to use English effectively for study purpose across the curriculum;</p> <p>c. to develop interest in and appreciation of Literature;</p> <p>d. to develop and integrate the use of the four language skills i.e. Reading, Listening, Speaking and Writing;</p> <p>e. to revise and reinforce structure already learnt.</p>
<p>Module Learning Outcomes</p> <p>مخرجات التعلم للمادة الدراسية</p>	<p>to develop the students' abilities in grammar, oral skills, reading, and study skills</p> <ol style="list-style-type: none"> 1. Students will increase their awareness of correct usage of English grammar in writing and speaking. 2. Improve their speaking ability in English both in terms of fluency and comprehensibility. 3. Receive feedback on their performance through oral presentations. 4. Increase their reading speed and comprehension of academic articles. 5. improve their reading fluency skills through extensive reading. 6. Expand their vocabulary by keeping a vocabulary journal. 7. strengthen their ability to write academic papers, essays and summaries using the process approach.
<p>Indicative Contents</p> <p>المحتويات الإرشادية</p>	<p>The course aims to develop communicative competence in English for intercultural contexts by teaching language items and communicative strategies essential for such scenarios, while at the same time giving students ample chances to output such items. The aims of this course are reflected in the content, which contains several themes, such as cultural awareness, intercultural awareness and English as a global language. Indicative content includes understanding the uniqueness of your own culture and other</p>

	<p>cultures, as well as being aware of the role culture plays in communication in English as a global language. In addition, this course allows for discussions about what it means for English to be a global language of communication and how misunderstandings and miscommunications when using English occurs. The course also includes practice in the pronunciation features that help improve intelligibility in intercultural contexts, namely the Lingua Franca Core.</p>
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<p>Learning and Teaching Strategies</p> <p>استراتيجيات التعلم والتعليم</p>

<p>Strategies</p>	<ol style="list-style-type: none"> 1. Cultivate relationships Speaking with students to know each student, helps you understand who they are, where they come from and, perhaps, gain some insight into what teaching and learning styles are most effective for them. 2. Teach language skills across all curriculum topics 3. Speak slowly and be patient: Speaking in a slower, measured cadence Being a bit more aware of your pronunciation 4. Prioritize “productive language” 5. Using a variety of methods to engage learning 6. Using visual aids by the use of pictures, diagrams, charts and other visual tools. 7. Coordinate with the ESL teacher: Such discussions can yield insights into individual students and their learning styles or challenges; they can also be helpful for sharing information about curriculum topics, potentially providing ESL teachers with ideas for highly relevant vocabulary words that can reinforce academic lessons. 8. Pre-teach new vocabulary words that may be unfamiliar to ELLs, or even to give them a copy of the article or link to the material ahead of time. 9. Build in some group work. 10. Respect moments of silence: Many new language learners tend to be a little reticent and quiet, opting for silence over speaking up and saying something “wrong” in a language that is still unfamiliar. Research-based strategies for differentiating instruction to promote student learning
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Student Workload (SWL)			
الحمل الدراسي للطالب محسوب لـ ١٥ اسبوعا			
Structured SWL (h/sem) الحمل الدراسي المنتظم للطالب خلال الفصل	48	Structured SWL (h/w) الحمل الدراسي المنتظم للطالب أسبوعيا	7
Unstructured SWL (h/sem) الحمل الدراسي غير المنتظم للطالب خلال الفصل	27	Unstructured SWL (h/w) الحمل الدراسي غير المنتظم للطالب أسبوعيا	6
Total SWL (h/sem) الحمل الدراسي الكلي للطالب خلال الفصل	75		

Module Evaluation					
تقييم المادة الدراسية					
		Time/Number	Weight (Marks)	Week Due	Relevant Learning Outcome
Formative assessment	Quizzes	2	10% (10)	5 and 10	LO #1, #2 and #10, #11
	Assignments	2	10% (10)	2 and 12	LO #3, #4 and #6, #7
	Projects / Lab.	0	0 %		
	Essays	1	10% (10)	13	LO #5, #8 and #10
Summative assessment	Midterm Exam	2hr	20% (10)	7	LO #1 - #7
	Final Exam	2hr	50% (50)	16	All
Total assessment			100% (100 Marks)		

Delivery Plan (Weekly Syllabus)

المنهاج الاسبوعي النظري

	Material Covered
Week 1	Unit-1 (Hello)
Week 2	Unit-2 (Your world)
Week 3	Unit-3 (Personal information)
Week 4	Unit-4 (Family and friends)
Week 5	Unit-5 (It's my life)
Week 6	Unit-6 (Every day)
Week 7	Mid-term Exam
Week 8	Unit-7 (Places I like)
Week 9	Unit-8 (Where I live)
Week 10	Unit-9 (Happy birthday)
Week 11	Unit-10 (We had a good time)
Week 12	Unit-11 (we can do it)
Week 13	Unit-12 (Thank you very much)
Week 14	Unit-13 (Here and now)
Week 15	Unit-14 (It's time to go)
Week 16	final-term Exam

Delivery Plan (Weekly Lab. Syllabus)

المنهاج الاسبوعي للمختبر (لا يوجد)

	Material Covered
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Week 1	Lab 1:
Week 2	Lab 2:
Week 3	Lab 3:
Week 4	Lab 4:
Week 5	Lab 5:
Week 6	Lab 6:
Week 7	Lab 7:

Learning and Teaching Resources		
مصادر التعلم والتدريس		
	Text	Available in the Library?
Required Texts	Headway. Beginner. Student's Book by Liz and John Soars, 2019.	Yes
Recommended Texts		No
Websites	https://elt.oup.com/student/headway/beg/?cc=global&selLanguage=en	

Grading Scheme				
مخطط الدرجات				
Group	Grade	التقدير	Marks %	Definition
Success Group (50 - 100)	A - Excellent	امتياز	90 - 100	Outstanding Performance
	B - Very Good	جيد جدا	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.

MODULE DESCRIPTION FORM

نموذج وصف المادة الدراسية

Module Information			
معلومات المادة الدراسية			
Module Title	Analytical Chemistry		Module Delivery
Module Type	C		<input checked="" type="checkbox"/> Theory <input checked="" type="checkbox"/> Lecture <input checked="" type="checkbox"/> Lab <input checked="" type="checkbox"/> Tutorial <input type="checkbox"/> Practical <input checked="" type="checkbox"/> Seminar
Module Code	CoS-112		
ECTS Credits	7		
SWL (hr/sem)	175		
Module Level	1	Semester of Delivery	
Administering Department	Bio	College	Sci
Module Leader	Wahran M. Suaad		e-mail
Module Leader's Acad. Title	lecturer	Module Leader's Qualification	Ph.D.
Module Tutor	Name (if available)	e-mail	
Peer Reviewer Name	Name	e-mail	E-mail
Scientific Committee Approval Date	01/06/2023	Version Number	1.0

Relation with other Modules			
العلاقة مع المواد الدراسية الأخرى			
Prerequisite module	None	Semester	
Co-requisites module	None	Semester	

Module Aims, Learning Outcomes and Indicative Contents

أهداف المادة الدراسية ونتائج التعلم والمحتويات الإرشادية

<p>Module Objectives أهداف المادة الدراسية</p>	<ol style="list-style-type: none">1. The chemical separation methods course is determined according to the study plan prepared in the Applied Chemistry Department.2. The course aims to introduce students to the general concepts of chemical separation methods used in chemical measurements3. It also aims to study in detail the types of separation methods that depend on physical or chemical properties, as well as extraction processes, purification of drinking water, fractional distillation of crude oil products, and purification of medical and chemical extracts used in daily life. It helps the student to know the composition of these materials, including medicines and extracts, separating components from their raw materials, how reactions occur, and the measurement mechanism.
<p>Module Learning Outcomes مخرجات التعلم للمادة الدراسية</p>	<ol style="list-style-type: none">1- That the student know the general concepts of compounds in the analytical chemistry curriculum.2- The student should be familiar with the basics and rules for naming different compounds, structural compositions, and different physical properties. .3- The student should know the basic principles of measurement methods and separation processes, choose the most appropriate property for separation processes for each compound, obtain the best results and pure extracts, and get acquainted with each method.4- The student should understand the importance of these methods and methods and their applications.
<p>Indicative Contents المحتويات الإرشادية</p>	<p>a- Methods of teaching and learning</p> <ol style="list-style-type: none">1- Giving lectures.2- Using the method of recitation, discussion and solving questions.3- Giving assignments to students to strengthen them and prepare them for the final and final exams. <p>b- Evaluation methods</p> <ol style="list-style-type: none">1- Daily and monthly exams2- Duties3- In-class exercises

Learning and Teaching Strategies استراتيجيات التعلم والتعليم	
Strategies	Type something like: The main strategy that will be adopted in delivering this module is to encourage students' participation in the exercises, while at the same time refining and expanding their critical thinking skills. This will be achieved through classes, interactive tutorials and by considering types of simple experiments involving some sampling activities that are interesting to the students.

Student Workload (SWL) الحمل الدراسي للطالب محسوب لـ ١٥ اسبوعا			
Structured SWL (h/sem) الحمل الدراسي المنتظم للطالب خلال الفصل	94	Structured SWL (h/w) الحمل الدراسي المنتظم للطالب أسبوعيا	7
Unstructured SWL (h/sem) الحمل الدراسي غير المنتظم للطالب خلال الفصل	81	Unstructured SWL (h/w) الحمل الدراسي غير المنتظم للطالب أسبوعيا	6
Total SWL (h/sem) الحمل الدراسي الكلي للطالب خلال الفصل	200		

Module Evaluation تقييم المادة الدراسية					
		Time/Number	Weight (Marks)	Week Due	Relevant Learning Outcome
Formative assessment	Quizzes	6	12% (5)	Same week	LO #1, #2 and #10, #11
	Assignments	6	12% (5)	Each following week	LO #3, #4 and #6, #7
	Projects / Lab.	1	8% (20)	Continuous	All
	Report	4	8% (5)	13	LO #5, #8 and #10

Summative assessment	Midterm Exam	1hr	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	Introduction to separation methods
Week 2	Distillation and type of distillations
Week 3	Extraction, its types and types of extracts
Week 4	Methods for treating contamination and purification of extracts
Week 5	Distribution Coefficient in extraction methods
Week 6	Extraction devices, their types, specifications of each device
Week 7	Organic solvents used in extraction and conditions to be met
Week 8	First month exam
Week 9	Ion exchanges , types, components, manufacturing methods, and specifications
Week 10	General rules for selectivity in ion exchangers
Week 11	Introduction to Chromatography
Week 12	Types of chromatography, types of classification
Week 13	Types of Liquid-solid chromatography
Week 14	Types of Gas-solid chromatography
Week 15	HPLC chromatography
Week 16	Preparatory week before the final Exam

Delivery Plan (Weekly Lab. Syllabus)

المنهاج الاسبوعي للمختبر

	Material Covered
Week 1	Lab 1: Introduction to separation methods
Week 2	Lab 2: Extraction by funnel separation
Week 3	Lab 3: Extraction with a scicholite and clavanger device
Week 4	Lab 4: paper chromatography

Week 5	Lab 5: separation ions by Ion exchanges
Week 6	Lab 6: study The effect of pH in chromatography
Week 7	Lab 7: separation ions using chromatography

Learning and Teaching Resources مصادر التعلم والتدريس		
	Text	Available in the Library?
Required Texts	<p>1- General principles of chemical and weight analysis dr. Safaa Razouqi Al-mraab. The second part</p> <p>2- Separation Methods in Chemical Analysis, Albertine Habboush, University of Baghdad.</p> <p>3- Practical applications in automated chemical analyzes and separation methods - Ismail Khalil Al-Hiti</p>	Yes
Recommended Texts	<p>separation and purification of organic compounds Approach To Modern Separation Techniques. by C-Zhou, E Almatrafi, X Tang, B Shao, W Xia... (Ph.D) (Author), 2022</p>	No
Websites	<p>https://www.sciencedirect.com/journal/separation-and-purification-technology/vol/292/suppl/C</p> <p>https://www.amazon.com/Separation-Purification-Methods-Edmond-Perry/dp/082476319X</p>	

Grading Scheme مخطط الدرجات				
Group	Grade	التقدير	Marks %	Definition
Success Group (50 - 100)	A - Excellent	امتياز	90 - 100	Outstanding Performance
	B - Very Good	جيد جدا	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

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MODULE DESCRIPTION FORM

نموذج وصف المادة الدراسية

Module Information			
معلومات المادة الدراسية			
Module Title	General Zoology		Module Delivery
Module Type	C		<input checked="" type="checkbox"/> Theory <input checked="" type="checkbox"/> Lecture <input checked="" type="checkbox"/> Lab <input checked="" type="checkbox"/> Tutorial <input type="checkbox"/> Practical <input checked="" type="checkbox"/> Seminar
Module Code	Bio-111		
ECTS Credits	8		
SWL (hr/sem)	200		
Module Level	1	Semester of Delivery	
Administering Department	Bio	College	Sci
Module Leader	Mohammed Q. Abid	e-mail	
Module Leader's Acad. Title	lecturer	Module Leader's Qualification	Ph.D.
Module Tutor	Name (if available)	e-mail	
Peer Reviewer Name	Name	e-mail	E-mail
Scientific Committee Approval Date	01/06/2023	Version Number	1.0

Relation with other Modules

العلاقة مع المواد الدراسية الأخرى

Prerequisite module	None	Semester	
Co-requisites module	None	Semester	

Module Aims, Learning Outcomes and Indicative Contents

أهداف المادة الدراسية ونتائج التعلم والمحتويات الإرشادية

<p>Module Objectives أهداف المادة الدراسية</p>	<ol style="list-style-type: none">1. Develop an understanding of the diversity of animal life and an appreciation of the significance of various taxa.2. Demonstrate a basic understanding of the evolutionary history of the animal kingdom.3. Develop an understanding of the form and function of animal systems.4. Develop laboratory skills necessary for zoological study.
<p>Module Learning Outcomes مخرجات التعلم للمادة الدراسية</p>	<ol style="list-style-type: none">1. Have developed an understanding of the diversity of animal life and an appreciation of the significance of various taxa.2. Have developed a basic understanding of the evolutionary history of the animal kingdom.3. Develop an understanding of the form and function of animal systems.4. Develop laboratory skills necessary for zoological study.
<p>Indicative Contents المحتويات الإرشادية</p>	<p>Zoology course covers three main themes:</p> <p>Comparative physiology - the functional characteristics of animals; Evolutionary biology - how animals adapt to their environment, and their genetics, Behaviour, ecology and conservation - how animals interact with their environment and each other to support biodiversity on the planet.</p> <p>Alongside your specialist zoology modules, you'll have the flexibility to study topics across the breadth of biology to complement your knowledge. These modules are available from your first year.</p> <p>Topics range from ecology and molecular genetics that underpin conservation, to pharmacology, neuroscience and even human physiology. This flexibility allows you to study zoology in greater depth, broaden your interests or even switch to another biosciences degree programme.</p>

Learning and Teaching Strategies

استراتيجيات التعلم والتعليم

Strategies	<p>As a zoology student, students will learn in lots of different ways, from lectures and small group tutorials to learning by doing during field work, practical lab sessions and research projects.</p> <p>Our staff are committed to great teaching and students will have lots of opportunities throughout your degree to be creative, think independently, and express your ideas.</p>
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Student Workload (SWL)

الحمل الدراسي للطالب محسوب لـ ١٥ اسبوعا

Structured SWL (h/sem) الحمل الدراسي المنتظم للطالب خلال الفصل	94	Structured SWL (h/w) الحمل الدراسي المنتظم للطالب أسبوعيا	6
Unstructured SWL (h/sem) الحمل الدراسي غير المنتظم للطالب خلال الفصل	106	Unstructured SWL (h/w) الحمل الدراسي غير المنتظم للطالب أسبوعيا	7
Total SWL (h/sem) الحمل الدراسي الكلي للطالب خلال الفصل	200		

Module Evaluation

تقييم المادة الدراسية

		Time/Number	Weight (Marks)	Week Due	Relevant Learning Outcome
Formative assessment	Quizzes	6	12% (5)	Same week	1, 2, 3, 4
	Assignments	6	12% (5)	Each following week	1, 2, 3, 4
	Projects / Lab.	1	8% (20)	12	1, 2, 3, 4
	Report	4	8% (5)	3, 6, 8, 10	3, 4
Summative assessment	Midterm Exam	1hr	10% (10)	7	1, 2, 3
	Final Exam	3hr	50% (50)	16	1, 2, 3, 4
Total assessment			100% (100 Marks)		

Delivery Plan (Weekly Syllabus)

المنهاج الاسبوعي النظري

	Material Covered
Week 1	View of life
Week 2	Introduction to biology
Week 3	Chemistry of life (part 1)
Week 4	Chemistry of life (part 2)
Week 5	Cell structure and function(1)
Week 6	Cell structure and function(2)
Week 7	Cell structure and function(3)
Week 8	Cell cycle and cellular reproduction
Week 9	Histology and animal tissue
Week 10	Ecology
Week 11	Exam
Week 12	Animal world
Week 13	Animal physiology
Week 14	Genetics
Week 15	Immunology
Week 16	Preparatory week before the final Exam

Delivery Plan (Weekly Lab. Syllabus)

المنهاج الاسبوعي للمختبر

	Material Covered
Week 1	Microscope
Week 2	Microscopic preparations
Week 3	Biochemical molecules
Week 4	Investigation of carbohydrates
Week 5	Animal cell (part 1)
Week 6	Animal cell (part 2)
Week 7	Biological experiments
Week 8	Animal tissue (1)

Week 9	Exam
Week 10	Animal tissue (2)
Week 11	Animal classification
Week 12	Anatomy of mice
Week 13	Blood picture
Week 14	DNA isolation from blood
Week 15	Blood groups
Week 16	Preparatory week before the final Exam

Learning and Teaching Resources

مصادر التعلم والتدريس

	Text	Available in the Library?
Required Texts	Integrated Principles of Biology 16th Ed. By Hickman et al. 2014. McGraw Hill Higher Education. Boston, MA. ISBN-13: 978-0073524214 ISBN-10: 0073524212	Yes
Recommended Texts		No
Websites		

Grading Scheme

مخطط الدرجات

Group	Grade	التقدير	Marks %	Definition
Success Group (50 - 100)	A - Excellent	امتياز	90 - 100	Outstanding Performance
	B - Very Good	جيد جدا	80 - 89	Above average with some errors
	C - Good	جيد	70 - 79	Sound work with notable errors
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MODULE DESCRIPTION FORM

نموذج وصف المادة الدراسية

Module Information			
معلومات المادة الدراسية			
Module Title	General Mathematics		Module Delivery
Module Type	Basic		<input type="checkbox"/> Theory <input checked="" type="checkbox"/> Lecture <input type="checkbox"/> Lab <input checked="" type="checkbox"/> Tutorial <input type="checkbox"/> Practical <input type="checkbox"/> Seminar
Module Code	CoS-111		
ECTS Credits	5		
SWL (hr/sem)	125		
Module Level	1	Semester of Delivery	
Administering Department	Biology	College	Science
Module Leader	Rafaat S. Abduljabar	e-mail	
Module Leader's Acad. Title	Lecturer	Module Leader's Qualification	Ph.D.
Module Tutor	Name (if available)	e-mail	E-mail
Peer Reviewer Name	Name	e-mail	E-mail
Scientific Committee Approval Date	01/06/2023	Version Number	1.0

Relation with other Modules

العلاقة مع المواد الدراسية الأخرى

Prerequisite module	Non	Semester	
Co-requisites module	None	Semester	

Module Aims, Learning Outcomes and Indicative Contents

أهداف المادة الدراسية ونتائج التعلم والمحتويات الإرشادية

Module Objectives أهداف المادة الدراسية	<p>This module aims to provide students with the necessary topics such as mathematical (whether classical or probabilistic) and statistical concepts that can be applied in Biology.</p> <p>Students will have acquired fundamental skills in the evaluation of experiments, the interpretation of readings and numbers as well as the mathematical description of biological processes.</p>
Module Learning Outcomes مخرجات التعلم للمادة الدراسية	<p>Mathematics is a very active and fast growing interdisciplinary area in which mathematical concepts, techniques, and models are applied to a variety of problems in developmental biology and biomedical sciences. Many biological processes can be quantitatively characterized by differential equations. This course introduces you to a variety of models mainly based on ordinary differential equations and techniques for analyzing these models. Mathematical concepts on nonlinear dynamics and chaos will be introduced. Population models (predator-prey, competition), epidemic models and reaction enzyme kinetics will be discussed. Some probabilistic modelling of molecular evolution will also be introduced. Use and interpret different types of data in biology. Choose and perform the appropriate statistical technique for the analysis of data. Apply knowledge of sampling to test hypotheses about problems. Interpret the results of a simple statistical analysis and communicate them in a clear, concise and appropriate manner. Discuss the principles of biology aspects and relate these to the decision-making and studies and the interpretation of results.</p>
Indicative Contents المحتويات الإرشادية	<p>lectures, tutorials, exercises and practice. Three-hours class and online lectures per week (total 45 hours). The tutorial will consist of a set questions put to the students to informally assess their understanding of the content of the lecture, to allow them to think about and solve example problems related to the lecture content, to express their understanding in English, and to correct any misunderstanding or gaps in their knowledge of the lecture's content.</p>

Learning and Teaching Strategies

استراتيجيات التعلم والتعليم

Strategies	The main strategy that will be adopted in delivering this module is to encourage students' participation in the exercises as well as a series of lectures and practice classes designed to introduce you to Mathematics and Biostatistics. At the same time, they are refining and expanding their critical thinking skills through topics covered in lectures, including population models for single and interacting species, population dynamics, Modelling infectious disease transmission, Enzyme kinetics, modelling of molecular biology, and Descriptive and inferential statistics.
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Student Workload (SWL)

الحمل الدراسي للطالب محسوب لـ ١٥ اسبوعا

Structured SWL (h/sem) الحمل الدراسي المنتظم للطالب خلال الفصل	63	Structured SWL (h/w) الحمل الدراسي المنتظم للطالب أسبوعيا	4
Unstructured SWL (h/sem) الحمل الدراسي غير المنتظم للطالب خلال الفصل	62	Unstructured SWL (h/w) الحمل الدراسي غير المنتظم للطالب أسبوعيا	4
Total SWL (h/sem) الحمل الدراسي الكلي للطالب خلال الفصل	125		

Module Evaluation

تقييم المادة الدراسية

		Time/Number	Weight (Marks)	Week Due	Relevant Learning Outcome
Formative assessment	Quizzes	6	12% (5)		
	Assignments	6	12% (5)		
	Projects / Lab.	1	8% (20)		
	Report	4	8% (5)		
Summative assessment	Midterm Exam	1	10% (10)		
	Final Exam	3hr	50% (50)	16	All
Total assessment			100% (100 Marks)		

Delivery Plan (Weekly Syllabus)

المناهج الاسبوعي النظري

	Material Covered
Week 1	Introduction to Calculus
Week 2	Slope of straight line
Week 3	Equation of straight line and circle
Week 4	Inequalities
Week 5	Absolute value function
Week 6	Graph of functions
Week 7	Limit and continuity
Week 8	Limit and continuity (continued)
Week 9	Derivative I
Week 10	Exam
Week 11	Derivative II
Week 12	Logarithmic functions
Week 13	Exponential function
Week 14	Trigonometric functions
Week 15	Applications of derivative
Week 16	Preparatory week before the final Exam

Learning and Teaching Resources

مصادر التعلم والتدريس

	Text	Available in the Library?
Required Texts	Mathematical Modeling in Systems Biology: An Introduction. Brian P. Ingalls (2022). MIT Press.	No
Recommended Texts		No
Websites	https://www.uoanbar.edu.iq/	

Grading Scheme

مخطط الدرجات

Group	Grade	التقدير	Marks %	Definition
Success Group	A - Excellent	امتياز	90 - 100	Outstanding Performance

(50 - 100)	B - Very Good	جيد جدا	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.

MODULE DESCRIPTION FORM

نموذج وصف المادة الدراسية

Module Information				
معلومات المادة الدراسية				
Module Title	(Arabic language) اللغة العربية			Module Delivery
Module Type	Support			<input checked="" type="checkbox"/> Theory <input checked="" type="checkbox"/> Lecture <input type="checkbox"/> Lab <input type="checkbox"/> Tutorial <input type="checkbox"/> Practical <input checked="" type="checkbox"/> Seminar
Module Code	UoA-112			
ECTS Credits	2			
SWL (hr/sem)	50			
Module Level	1	Semester of Delivery		
Administering Department	Bio	College	Sci	
Module Leader	Ali M. Jurow		e-mail	
Module Leader's Acad. Title	Prof.		Module Leader's Qualification	Ph.D
Module Tutor			e-mail	
Peer Reviewer Name			e-mail	
Scientific Committee Approval	01/06/2023		Version Number	1.0

Date			
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Relation with other Modules			
العلاقة مع المواد الدراسية الأخرى			
Prerequisite module	None	Semester	
Co-requisites module	None	Semester	

Module Aims, Learning Outcomes and Indicative Contents	
أهداف المادة الدراسية ونتائج التعلم والمحتويات الإرشادية	
Module Objectives أهداف المادة الدراسية	<p>أ - تنمية معارف الطلبة للغة العربية، وأهميتها لهم.</p> <p>ب - أن يتعرف على شرح بعض سور القرآن الكريم، ويحفظها.</p> <p>ت- ان يتعرف الطالب على تاريخ الأدب، وأهم مراحل تطوره .</p> <p>ث- الاطلاع على شعراء لم يسبق للطلاب التعرف عليهم</p> <p>ج- أن يضبط الطلبة كتابة الأملاء وعلامات الترقيم.</p>
Module Learning Outcomes مخرجات التعلم للمادة الدراسية	<ol style="list-style-type: none"> 1. القدرة على الحفظ والاستذكار 2. القدرة على الموازنة بين لغة ادب العصر المذكور والآداب الأخرى. 3. القدرة على المشاركة الجماعية للمحتويات الأدبية للمادة 4. القدرة على تقديم المقترحات وحل المشكلات 5. القدرة على التفاعل مع المصادر والمراجع
Indicative Contents المحتويات الإرشادية	<p>القران الكريم- سورة الملك ، الآيات 1-10 ، القواعد، المبتدأ والخبر</p> <p>الأدب- مصطلح الأدب والعصور الأدبية</p> <p>الإملاء- كتاب الهمزة</p> <p>القران الكريم- سورة الملك</p> <p>الآيات 11-20</p> <p>القواعد- كان وأخواتها</p> <p>الأدب- قصيدة قم للمعلم لأحمد شوقي</p> <p>الإملاء- كتابة الضاد والظاء</p> <p>القران الكريم- سورة الملك</p> <p>الآيات 21-30</p> <p>القواعد- إن وأخواتها</p> <p>الأدب- قصيدة اللغة العربية لحافظ إبراهيم</p> <p>الإملاء- علامات الترقيم</p> <p>القواعد- التوابع</p> <p>الأدب- النثر العربي، المقامات الأدبية</p>

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Learning and Teaching Strategies استراتيجيات التعلم والتعليم	
Strategies	<p>تعتبر استراتيجيات التراكيب عن قواعد تراكيب اللغة العربية، حيث أن أفضل أسلوب في تدريس القواعد النحوية، وهو الأسلوب الطبيعي الذي يعتمد على ممارسة اللغة استماعاً، وكلاماً، وقراءة، وكتابة، وعلى هذا الأساس فالاستعمال كما يقول ابن خلدون: ومحاكاة الأساليب اللغوية الصحيحة، والتدريب عليها تدريباً متصلاً، هو الأسلوب الأمثل في تدريس القواعد النحوية، ومن ثم لا بد أن يفسح المدرس أمام التلاميذ المجال في دروس الاستماع، والتعبير والقراءة للتدريب على القواعد النحوية، حيث يشعرون بحاجتهم إليها للفهم والتعبير والكتابة دون ضغط أو إرغام. إضافة إلى:</p> <ol style="list-style-type: none"> 1 - استراتيجية الحوار 2 - استراتيجية السرد القصصي 3 - التدريس باستخدام التكنولوجيا 4 - استراتيجية إعداد المشاريع... 5 - استراتيجية تبادل الأدوار

Student Workload (SWL) الحمل الدراسي للطالب محسوب لـ ١٥ اسبوعاً			
Structured SWL (h/sem) الحمل الدراسي المنتظم للطالب خلال الفصل	48	Structured SWL (h/w) الحمل الدراسي المنتظم للطالب أسبوعياً	7
Unstructured SWL (h/sem) الحمل الدراسي غير المنتظم للطالب خلال الفصل	27	Unstructured SWL (h/w) الحمل الدراسي غير المنتظم للطالب أسبوعياً	6
Total SWL (h/sem) الحمل الدراسي الكلي للطالب خلال الفصل	75		

Module Evaluation تقييم المادة الدراسية					
		Time/Number	Weight (Marks)	Week Due	Relevant Learning Outcome
Formative assessment	Quizzes	6	12% (5)	5 and 10	LO #1, #2 and #10, #11
	Assignments	6	12% (5)	2 and 12	LO #3, #4 and #6, #7
	Projects / Lab.	1	8% (20)		
	Essays	4	8% (5)	13	LO #5, #8 and

					#10
Summative assessment	Midterm Exam	1hr	10% (10)	7	LO #1 - #7
	Final Exam	2hr	50% (50)	16	All
Total assessment			100% (100 Marks)		

Delivery Plan (Weekly Syllabus)	
المنهاج الاسبوعي النظري	
	Material Covered
Week 1	القران الكريم- سورة الملك (الآيات 1-10)
Week 2	القواعد- المبتدأ والخبر
Week 3	الأدب- مصطلح الأدب والعصور الأدبية
Week 4	الإملاء- كتاب الهمزة
Week 5	القران الكريم- سورة الملك (الآيات 11-20)
Week 6	القواعد- كان وأخواتها
Week 7	first-term Exam
Week 8	الأدب- قصيدة قم للمعلم لأحمد شوقي
Week 9	الإملاء- كتابة الضاد والطاء
Week 10	القران الكريم- سورة الملك (الآيات 21-30)
Week 11	القواعد- إن وأخواتها
Week 12	الأدب- قصيدة اللغة العربية لحافظ إبراهيم
Week 13	الأدب- النثر العربي، المقامات الأدبية
Week 14	الإملاء- علامات الترقيم
Week 15	القواعد- التوابع
Week 16	final-term Exam

Delivery Plan (Weekly Lab. Syllabus)	
المنهاج الاسبوعي للمختبر (لا يوجد)	
	Material Covered
Week 1	Lab 1:
Week 2	Lab 2:
Week 3	Lab 3:
Week 4	Lab 4:

Week 5	Lab 5:
Week 6	Lab 6:
Week 7	Lab 7:

Learning and Teaching Resources مصادر التعلم والتدريس		
	Text	Available in the Library?
Required Texts	كتاب اللغة العربية للأقسام غير الاختصاص	Yes
Recommended Texts	كتب اخرى ضمن الاختصاص ذات اسلوب أكاديمي مفصل	yes
Websites		

Grading Scheme مخطط الدرجات				
Group	Grade	التقدير	Marks %	Definition
Success Group (50 - 100)	A - Excellent	امتياز	90 - 100	Outstanding Performance
	B - Very Good	جيد جدا	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.

MODULE DESCRIPTION FORM

نموذج وصف المادة الدراسية

Module Information			
معلومات المادة الدراسية			
Module Title	Biophysics		Module Delivery
Module Type	B		<input checked="" type="checkbox"/> Theory <input checked="" type="checkbox"/> Lab <input checked="" type="checkbox"/> Seminar
Module Code	CoS-113		
ECTS Credits	6		
SWL (hr/sem)	150		
Module Level	1	Semester of Delivery	1
Administering Department	Bio	College	Sci
Module Leader	Farid M. Mushib	e-mail	Fareedm1969@gmail.com
Module Leader's Acad. Title	Assist professor	Module Leader's Qualification	Ph.D.
Module Tutor	Name (if available)	e-mail	-----

Peer Reviewer Name	Name	e-mail	E-mail----
Scientific Committee Approval Date	01/10/2023	Version Number	1.0

Relation with other Modules			
العلاقة مع المواد الدراسية الأخرى			
Prerequisite module	None	Semester	
Co-requisites module	None	Semester	

Module Aims, Learning Outcomes and Indicative Contents	
أهداف المادة الدراسية ونتائج التعلم والمحتويات الإرشادية	
Module Objectives أهداف المادة الدراسية	<ol style="list-style-type: none"> 1. Identify the foundations and systems of physics and link them to daily life activities and human activities 2. Knowledge of vector and scalar quantities and the basic units of physics. Study and transform vectors, and addition, subtraction and multiplication of vectors. 3. Study of movement in one dimension and calculate the acting forces and their resultant 4. Study of simple harmonic motion, heat, heat quantity, friction, electricity, energy, and work, and their relationship to living organisms.
Module Learning Outcomes مخرجات التعلم للمادة الدراسية	<ol style="list-style-type: none"> 5- A- Cognitive objectives 6- A- 1 . Improving the level of comprehension (comprehension) developing the ability to interpret, predict and conclude 7- A- 2 . Application capabilities development 8- A-3. Providing the student with the ability to analyze 9- A-4. Develop the student's ability to integrate ideas and information (synthesis level), which is the opposite of analysis 10- A- 5. Evaluation: Developing the student's ability to make a judgment on the value of the material learned 11- B- The skills objectives of the course 12- B 1 . Improving the student's ability to observe 13- B-2. To learn how to imitate and imitate. 14- B-3. To learn the method of experimentation
Indicative Contents	General and qualifying transferable skills (other skills related to

المحتويات الإرشادية	<p>employability and personal development).</p> <ol style="list-style-type: none"> 1. Teaching the student oral and written communication skills 2. Using modern technological tools, such as computers, the Internet, and scientific programs for preparing reports, tables, figures, and presentations. 3. Encouraging the student to work collectively within a work team 4. Developing the student's abilities to make optimal use of time (time management).
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Learning and Teaching Strategies استراتيجيات التعلم والتعليم	
Strategies	<p>Type something like: The main strategy that will be adopted in delivering this module is to encourage students' participation in the exercises, while at the same time refining and expanding their critical thinking skills. This will be achieved through classes, interactive tutorials and by considering types of simple experiments involving some sampling activities that are interesting to the students.</p>

Student Workload (SWL) الحمل الدراسي للطالب محسوب لـ ١٥ اسبوعا			
Structured SWL (h/sem) الحمل الدراسي المنتظم للطالب خلال الفصل	64	Structured SWL (h/w) الحمل الدراسي المنتظم للطالب أسبوعيا	6
Unstructured SWL (h/sem) الحمل الدراسي غير المنتظم للطالب خلال الفصل	86	Unstructured SWL (h/w) الحمل الدراسي غير المنتظم للطالب أسبوعيا	4
Total SWL (h/sem) الحمل الدراسي الكلي للطالب خلال الفصل	150		

Module Evaluation تقييم المادة الدراسية				
	Time/Number	Weight (Marks)	Week Due	Relevant Learning Outcome

Formative assessment	Quizzes	6	12% (5)	Same week	LO #1, #2 and #10, #11
	Assignments	6	12% (5)	Each following week	LO #3, #4 and #6, #7
	Projects / Lab.	1	8% (20)	Continuous	All
	Report	4	8% (5)	13	LO #5, #8 and #10
Summative assessment	Midterm Exam	1hr	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	Vectors and their analysis with drawing .
Week 2	Numerical and vector multiplication with examples .
Week 3	Motion in one dimension.
Week 4	Free fall and examples.
Week 5	Simple harmonic motion.
Week 6	Classic Mechanics.
Week 7	Mid Exam
Week 8	Newton's laws of motion.
Week 9	Force and friction force
Week 10	Mathematical examples of force
Week 11	Work and its types
Week 12	Ability and examples
Week 13	Heat and amount of heat
Week 14	Optics.
Week 15	Static electricity
Week 16	Final Exam

Delivery Plan (Weekly Lab. Syllabus) المنهاج الاسبوعي للمختبر	
	Material Covered
Week 1	Lab 1: An introduction to the physics laboratory and tools
Week 2	Lab 2: Resultant force experiment.
Week 3	Lab 3: The squid pendulum experiment.
Week 4	Lab 4: Experiment to achieve Hooke's law.
Week 5	Lab 5: Fluid density experiment.
Week 6	Lab 6: Free Fall Experience.
Week 7	Lab 7: Ohm's law experiment.

Learning and Teaching Resources مصادر التعلم والتدريس		
	Text	Available in the Library?
Required Texts	4- "Mechanics Principles and Applications" part one, Dr. Hazem Falah Sakeek Associated Professor of Physics Al-Azhar University – Gaza (2001)	Yes
Recommended Texts	1- "Mechanics Principles and Applications" part one, Dr. Hazem Falah Sakeek Associated Professor of Physics Al-Azhar University – Gaza (2001) 2- "Electrostatic Principles and Applications" part two, Dr. Hazem Falah Sakeek Associated Professor of Physics Al-Azhar University – Gaza (2001)	No
Websites		

Grading Scheme مخطط الدرجات				
Group	Grade	التقدير	Marks %	Definition
Success Group (50 - 100)	A - Excellent	امتياز	90 - 100	Outstanding Performance
	B - Very Good	جيد جدا	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.

MODULE DESCRIPTION FORM

نموذج وصف المادة الدراسية

Module Information			
معلومات المادة الدراسية			
Module Title	<u>General Botany</u>		Module Delivery
Module Type	<u>C</u>		<input checked="" type="checkbox"/> Theory <input checked="" type="checkbox"/> Lecture <input checked="" type="checkbox"/> Lab <input type="checkbox"/> Tutorial <input type="checkbox"/> Practical <input type="checkbox"/> Seminar
Module Code	<u>Bio-121</u>		
ECTS Credits	<u>8</u>		
SWL (hr/sem)	<u>200</u>		
Module Level	1	Semester of Delivery	
Administering Department	Bio	College	Sci
Module Leader	Enas Fahd Naji Hiba Foad Abdulfatah		e-mail SC.enas-fahad@uoanbar.edu.iq Sc.hibbafouad@uoanbar.edu.iq
Module Leader's Acad. Title	Lecturer	Module Leader's Qualification	Ph.D.
Module Tutor	Name (if available)	e-mail	E-mail
Peer Reviewer Name		e-mail	
Scientific Committee Approval Date	01/06/2023	Version Number	1.0

Relation with other Modules

العلاقة مع المواد الدراسية الأخرى

Prerequisite module	None	Semester	
Co-requisites module	None	Semester	

Module Aims, Learning Outcomes and Indicative Contents

أهداف المادة الدراسية ونتائج التعلم والمحتويات الإرشادية

<p>Module Objectives أهداف المادة الدراسية</p>	<ol style="list-style-type: none"> 1. Identify the most important plant groups and species in nature, their characteristics, and methods of reproduction and living 2. Learn about the plant cell and its different parts and the function of each part. 3. Understanding the cell life cycle and types of division 4. Identify the different plant parts and their modifications 5. Understanding the mechanisms of sexual and asexual reproduction in different plant cells
<p>Module Learning Outcomes مخرجات التعلم للمادة الدراسية</p>	<ol style="list-style-type: none"> 1. Identify the most important plant groups and species in nature, their characteristics, and methods of reproduction and living 2. Identify the plant cell with all its parts and distinguish it from the animal cell. 3. Knowing the most important functions that take place at the cellular and tissue levels. 4. Understanding the cell life cycle and types of division 5. Identify the different plant parts and their modifications 6. Understanding the mechanisms of sexual and asexual reproduction in different plant cells 7. Identify the most important events that take place during plant cell growth 8. Microscopic examination of many living and nonliving components of the plant cell 9. Learn to prepare slides for various plant specimens
<p>Indicative Contents المحتويات الإرشادية</p>	<p>Botany course covers four main themes:</p> <p>Taxonomy: Dividing plants into groups according to the degree of similarity between them in genetic components</p> <p>Cytology: Study of the internal structure of plant cells</p> <p>External morphology: Studying the external structure of plants and its various parts</p> <p>Physiology: Study of various functions at the level of organs and tissues</p>

Learning and Teaching Strategies

استراتيجيات التعلم والتعليم

Strategies	The main strategy that will be adopted in delivering this module is to encourage students' participation in the exercises as well as a series of lectures and practical classes designed to introduce you to botany. At the same time refining and expanding their critical thinking skills through topics covered in lectures include what are plant cells, their basic characteristics, structure and metabolisms processes . An interactive tutorial and by considering types of simple experiments In methods of preparing different solutions, expressing their concentrations, and methods of estimating some important compounds in the plant cell, and observing some important phenomena in the laboratory at the level of the plant cell.
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Student Workload (SWL)

الحمل الدراسي للطالب محسوب لـ ١٥ اسبوعا

Structured SWL (h/sem) الحمل الدراسي المنتظم للطالب خلال الفصل	75	Structured SWL (h/w) الحمل الدراسي المنتظم للطالب أسبوعيا	5
Unstructured SWL (h/sem) الحمل الدراسي غير المنتظم للطالب خلال الفصل	122	Unstructured SWL (h/w) الحمل الدراسي غير المنتظم للطالب أسبوعيا	6
Total SWL (h/sem) الحمل الدراسي الكلي للطالب خلال الفصل	200		

Module Evaluation

تقييم المادة الدراسية

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

Delivery Plan (Weekly Syllabus)

المنهاج الاسبوعي النظري

	Material Covered
Week 1	Botany and botany branches
Week 2	Major Plant Categories and Associated Groups 1
Week 3	Major Plant Categories and Associated Groups 2
Week 4	Plant Cells-Definition, Diagram, Structure & Function 1
Week 5	Plant Cells-Definition, Diagram, Structure & Function 2
Week 6	Cell Walls of Plants
Week 7	Mid-term Exam
Week 8	Plant cell cycle
Week 9	Mitosis lecture
Week 10	Meiosis Lecture)
Week 11	Plant parts)
Week 12	Pollination and fertilization
Week 13	Photosynthesis
Week 14	Respiration
Week 15	Plant growth and Plant growth regulators
Week 16	Preparatory week before the final Exam

Delivery Plan (Weekly Lab. Syllabus)

المنهاج الاسبوعي للمختبر

	Material Covered
Week 1	Microscope
Week 2	project
Week 3	Plant cell and its components living components 1
Week 4	Plant cell and its components living components 2
Week 5	Plant cell and its components Non-living components 1
Week 6	Plant cell and its components Non-living components 2
Week 7	Midterm exam
Week 8	Home work discussion
Week 9	Pits
Week 10	Stomatal system
Week 11	Cell division
12	Plant growth
13	Plant growth regulators
14	Project Discussion

Learning and Teaching Resources

مصادر التعلم والتدريس

	Text	Available in the Library?
Required Texts	Reece, J. B., Urry, L. A., & Cain, M. L. (2017). Campbell biology. Pearson.	No
Recommended Texts		No
Websites	http://www.mobot.org/mobot/tropicos/most/ http://www.csd1.tamu.edu/FLORA/fsb/fsbfern1.htm http://www.botany.hawaii.edu/faculty/carr/equiset.htm	

Grading Scheme

مخطط الدرجات

Group	Grade	التقدير	Marks %	Definition
Success Group (50 - 100)	A - Excellent	امتياز	90 - 100	Outstanding Performance
	B - Very Good	جيد جدا	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 (فيد 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.