

المركز الوطني للتقويم والاعتماد الاكاديمي National Center for Academic Accreditation and Evaluation

ATTACHMENT 5.

T6. COURSE SPECIFICATIONS (CS)



Course Specifications

Institution: University of Tabuk Date:							
College/Department : Ummlaj University College / Biology							
A. Course Identification and General Information							
1. Course title and code: General Biology II (BIO202)							
2. Credit hours: 3							
3. Program(s) in which the course is of	fered.						
(If general elective available in many pr	rograms indicate this rather than	list programs)					
BIOLOGY							
4 Name of faculty member responsible	a for the course.						
4. Name of faculty member responsion	e for the course.						
5. Level/year at which this course is of	fered: 3						
6. Pre-requisites for this course (if any)):BIO 201,						
7. Co-requisites for this course (if any)	: None						
8. Location if not on main campus: N.A	4						
9. Mode of Instruction (mark all that a	oply):						
a. traditional classroom	What percentage?	75%					
b blended (traditional and online)	What percentage?						
b. biolided (traditional and omine)							
c. e-learning	What percentage?						
d. correspondence	What percentage?						
f. other (lab work) $$ What percentage? 25%							
Comments:	Comments:						
<u> </u>							



B Objectives

- 1. What is the main purpose for this course?
 - Explain the animal and plant hormones and their functions.
 - Explain the circulatory system in animals and transporting system in plants.
 - Identify the basic features of general ecology (animal and plant ecology).
 - Students will be able to explain the Immune system in animals and plants.
- 2. Briefly describe any plans for developing and improving the course that are being implemented. (e.g. increased use of IT or web based reference material, changes in content as a result of new research in the field)
 - Computer based programs have been utilized to support the lecture course material to demonstrate more of general biology.
 - Care well is taken in the class for student.
 - Toll to be established for student to introduce them self in the field of medicine.
 - See newer scientific research in the context of decision.
 - Follow the latest websites in the field of scientific study
 - Updating the course with latest curriculum developments in the field.
 - Updating course curriculum using internet materials.
 - Annual review of the laboratory sessions and re-developed with recent.

C. Course Description (Note: General description in the form used in Bulletin or handbook)

Course Description:

1. Topics to be Covered		
List of Topics	No. of Weeks	Contact hours
Animal hormones 1	1	4
Animal hormones 2	1	4
Control Systems in Plants (Major plant hormones). 1	1	4
Control Systems in Plants (Major plant hormones). 2	1	4
Circulatory system in animals	1	4
Transporting system in Plants (Xylem and phloem)	1	4
Animal immunology	1	4
Revision and Pre Final Exam		

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Mid Term Vacation		
Principals of taxonomy, Five major Kingdoms.	1	4
The nervous system in animals (Central)	1	4
The nervous system in animals (Peripheral)	1	4
Principals of General Ecology (Population, Community and ecosystem).	1	4
Plant sensation	1	4
Revision	1	4
Final Exam		

2. Course components (total contact hours and credits per semester):							
		Lecture	Tutorial	Laboratory/ Studio	Practical	Other:	Total
Contact		39			26		65
Hours							
Credit		3			1		4
Cieult							

3. Additional private study/learning hours expected for students per week.

A brief summary of the knowledge or skill the course is intended to develop.

• A description of the teaching strategies to be used in the course to develop that knowledge or skill.

• The methods of student assessment to be used in the course to evaluate learning outcomes in the domain concerned.

4. Course Learning Outcomes in	NQF Domains	of Learning and	d Alignment	with Assessment
Methods and Teaching Strategy				

Course Learning Outcomes, Assessment Methods, and Teaching Strategy work together and are aligned. They are joined together as one, coherent, unity that collectively articulate a consistent agreement between student learning, assessment, and teaching.

The *National Qualification Framework* provides five learning domains. Course learning outcomes are required. Normally a course has should not exceed eight learning outcomes which align with one or more of the five learning domains. Some courses have one or more program learning outcomes integrated into the course learning outcomes to demonstrate program learning outcome alignment. The program learning outcome matrix map identifies which program learning outcomes are incorporated into specific courses.

On the table below are the five NQF Learning Domains, numbered in the left column.

First, insert the suitable and measurable course learning outcomes required in the appropriate learning domains (see suggestions below the table). **Second**, insert supporting teaching strategies that fit and align with the assessment methods and intended learning outcomes. **Third**, insert appropriate assessment methods that accurately measure and evaluate the learning outcome. Each course learning outcomes,

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assessment method, and teaching strategy ought to reasonably fit and flow together as an integrated learning and teaching process. **Fourth**, if any program learning outcomes are included in the course learning outcomes, place the @ symbol next to it.

Every course is not required to include learning outcomes from each domain.

Cod	le NQF Learning Domains	Course Teaching		Course Assessment		
#	# And Course Learning Outcomes		Strategies		Methods	
1.0	Knowledge					
1.1	Describe and explain plant and animal	In-cl	ass lecturing where	Rec	ord MCQs quizzes	
	hormones.		revious knowledge	(ora	lly and written).	
			ked to the current			
		and f	uture topics.			
1.2	Identify, describe, and explain the structure	Able	to write Tutorial	Maj	or and final exams	
	and function of nervous and immunological	discu	discussions.			
	system for animals and plants.					
1.3	Discuss the main differences between animal	Pract	ice the	Web	o site and computer	
	and plant ecology.	relati	onship between	assis	sted learning.	
		the	plant and animal		C	
		syste	m.			
1.4	To indicate animal circulatory system and	Able	to tell and write	Hon	ne activities on the	
	plant transporting system.	their	deas about the	topi	cs taught.	
		techr	iques involved.		-	
1.5		Able	to describe			
		the s	cientific discussion			
		with	dav-to-dav			
		exam	nle			
2.0	Cognitive Skills	Unun	ipie.			
21	Summarize structure and functions of	Stud	ents able to explain	In	class short MCOs	
2.1	circulatory system	what	they have learned			
	chediatory system	wnau	they have rearried.	quiz	200.	
2.2	The ability to know the immune system in	Oral	Quiz in each	Mai	or and final avams	
2.2	animals and plants	laatu		wiaj	or and final exams.	
22	Evaluating performance of the functional	Droh	lon colving in the	Cha	alring the muchlonic	
2.3	efficiency of the organs	PIOD	iem solving in the	Che	cking the problems	
2.4	Ability to explain the factors that stimulate as	Tectu		SOL	ed in the lecture.	
2.4	Ability to explain the factors that stimulate of	Enco				
	minor the physiological processes in the plan	discu	ss, summarize and			
	system.	plan.				
2.5	Ability to analyze the physiology of two					
	different functions at cellular level.					
3.0	Interpersonal Skills & Responsibility					
3.1	Improve student acceptance skill from other	Conc	lucting discussion	Grad	ding oral and written	
	during discussion.	skill	tutorial sessions	quiz		

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3.2	B.2Work independently and as part of a team.Manage resources, time and other members of		Conducting group experiments and	
	the group.		writing group reports.	
3.3	Manage and calculateresources, time and other			
	members of the group; writeresults of workto			
	others.			
3.4	3.4 Communicate results of work to others,			
	demonstrate and develop interper	sonal skill.		
4.0	Communication, Information T	echnology, Nu	umerical	
4.1	Demonstration and use of in	nternet and	Incorporating the use	Evaluating in class short
	specifically MS office/ pres	senting small	and utilization of	MCQs quizzes (orally
	reports on various topics.		computer in the course	and written)
1.0		• 1	requirements	
4.2	e-learning/Report writing/prepar	ing research	Demonstratingmore	Major and final
	Teview etc		topics	reports written by
			topics	students
43	Demonstration and use of ju	nternet and	Incorporating the use	Evaluating in class short
	specifically MS office/ pres	senting small	and utilization of	MCOs quizzes (orally
	reports on various topics.	8	computer in the course	and written)
	1 1		requirements	,
5.0	Psychomotor		·	·
				-
5.1	NOT APPLICABLE		NOT APPLICABLE	NOT APPLICABLE
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Suggested *verbs not to use* when writing measurable and assessable learning outcomes are as follows:

Consider	r Maximize	Continue	Review	Ensure	Enlarge	Understand
Maintain	Reflect	Examine	Strengthen	Explore	Encourage	Deepen
	Some of these ve Suggeste	erbs can be use d assessment n	d if tied to spece nethods and te	cific actions c aching strate	or quantification egies are:	Ι.
According to re	esearch and best p	ractices, multip	le and continue	ous assessme	nt methods are	required to verify

According to research and best practices, multiple and continuous assessment methods are required to verify student learning. Current trends incorporate a wide range of rubric assessment tools; including web-based student performance systems that apply rubrics, benchmarks, KPIs, and analysis. Rubrics are especially helpful for qualitative evaluation. Differentiated assessment strategies include: exams, portfolios, long and short essays, log books, analytical reports, individual and group presentations, posters, journals, case studies, lab manuals, video analysis, group reports, lab reports, debates, speeches, learning logs, peer evaluations, self-evaluations, videos, graphs, dramatic performances, tables, demonstrations, graphic organizers, discussion forums, interviews, learning contracts, antidotal notes, artwork, KWL charts, and concept mapping.

Differentiated teaching strategies should be selected to align with the curriculum taught, the needs of students, and the intended learning outcomes. Teaching methods include: lecture, debate, small group work, whole group and small group discussion, research activities, lab demonstrations, projects, debates, role playing, case studies, guest speakers, memorization, humor, individual presentation, brainstorming, and a wide variety of hands-on student learning activities

5. Schedule of Assessment Tasks for Students During the Semester					
	Assessment task (i.e., essay, test, quizzes, group project, examination, speech, oral presentation, etc.)	Week Due	Proportion of Total Assessment		
1	Activities and Short Quizzes	Distributed over 8 weeks	10%		
2	Pre-Final Practical Exam	8	10%		
3	Pre-Final Theoretical Exam	8	25%		
4	Final-Practical Exam	15	15%		
5	Final Theory Exam	16	40%		



D. Student Academic Counseling and Support

1. Arrangements for availability of faculty and teaching staff for individual student consultations and academic advice. (include amount of time teaching staff are expected to be available each week)

Office hours 6-8 hr/ week

Help sessions 1hr/ week aided by two faculty members.

E Learning Resources

1. List Required Textbooks

Gareth, P. (2006): Biology: An Illustrated Guide to Science. Chelsea House Publications. ISBN-10: 0816061629.

2. List Essential References Materials (Journals, Reports, etc.)

Gareth, P. (2006): Biology: An Illustrated Guide to Science. Chelsea House Publications. ISBN-10: 0816061629

3. List Electronic Materials, Web Sites, Facebook, Twitter, etc.

Websites on the internet that are relevant to the topics of the course

www.sciencedirect.com

www.plantphysiol.org

4. Other learning material such as computer-based programs/CD, professional standards or regulations and software.

Multimedia associated with the text book and the relevant websites

F. Facilities Required

Indicate requirements for the course including size of classrooms and laboratories (i.e. number of seats in classrooms and laboratories, extent of computer access,etc.)

1. Accommodation (Classrooms, laboratories, demonstration rooms/labs, etc.) Lecture room with at least minimum capacity of 40 seats

2. Technology resources (AV, data show, Smart Board, software, etc.) Calculators; wireless connection in the building for students and faculties.

3. Other resources (specify, e.g. if specific laboratory equipment is required, list requirements or attach list)

Instruments required for conducting the experiments like: microtome, electrophoretic unit, Respirometer Apparatus for plant physiology practical: T/A apparatus, Respiroscope



G Course Evaluation and Improvement Processes

- 1. Strategies for Obtaining Student Feedback on Effectiveness of Teaching
 - Course evaluation by student
 - Students- faculty meetings

2. Other Strategies for Evaluation of Teaching by the Program/Department Instructor

- Peer consultation on teaching
- Departmental council discussions
- Discussions within the group of faculty teaching the course

3. Processes for Improvement of Teaching

- Conducting workshops given by experts on the teaching and learning methodologies
- Periodical departmental revisions of its methods of teaching
- Monitoring of teaching activates by senior faculty members.

4. Processes for Verifying Standards of Student Achievement (e.g. check marking by an independentmember teaching staff of a sample of student work, periodic exchange and remarking of tests or a sample of assignments with staff at another institution)

- Providing samples of all kind of assessment in the departmental course portfolio of each course
- Assigning group of faculty members teaching the same course to grade same questions for various students. Faculties from other institutions are invited to review the accuracy of thegrading policy.

5. Describe the planning arrangements for periodically reviewing course effectiveness and planning for improvement.

- The course material and learning outcomes are periodically reviewed and the changes to be taken are approved in the departmental and higher councils.
- The head of department and faculty take the responsibility of implementing the proposed changes

Name of Course Instructor:

Signature:

Date Specification Completed:

Program Coordinator:

Signature: _____

Date Received:_____