

ATTACHMENT 2 (e)

Course Specifications

Kingdom of Saudi Arabia

**The National Commission for Academic Accreditation &
Assessment**

**Course Specifications
(CS)**

Course Specifications

Institution

University of Dammam

Date 3/1/1436 (28/10/2014)

A. Course Identification and General Information

1. Course title and code: Animal Physiology-1 (BIOL347)			
2. Credit hours = 3(2+1)			
3. Program(s) in which the course is offered. (If general elective available in many programs indicate this rather than list programs) Bachelor of Science degree in Biology			
4. Name of faculty member responsible for the course Dr Badryah Al-Suwaigh,Dr Aziza Al- A specific team from the Biology Department			
5. Level/year at which this course is offered level 5th year 1435/1436			
6. Pre-requisites for this course (if any) chordate			
7. Co-requisites for this course (if any) Histology + Biochemistry			
8. Location if not on main campus Main campus Rian Dammam			
9. Mode of Instruction (mark all that apply)			
a. traditional classroom	<input type="checkbox"/>	✓	What percentage? <input type="checkbox"/>
20% b. blended (traditional and online)	<input type="checkbox"/>	✓	What percentage? <input type="checkbox"/>
30% c. e-learning	<input type="checkbox"/>	✓	What percentage? <input type="checkbox"/>
20% d. correspondence	<input type="checkbox"/>	✓	What percentage? <input type="checkbox"/>
20% f. other Practical	<input type="checkbox"/>	✓	What perc <input type="checkbox"/>
10%	<input type="checkbox"/>		<input type="checkbox"/>
	<input type="checkbox"/>		entage? <input type="checkbox"/>
Comments:			

B Objectives

1. What is the main purpose for this course? For student to know
- 1- To understand physiological properties of cell membrane
- 2- To understand digestion and absorption of CHO, proteins and Fats
- 3- Physiological basis of general and pulmonary circulation
- 4- Respiratory and exchange of gases mechanisms
- 5- Blood cellular elements.
- 6- Blood hemostasis

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)

1- Availability of lectures to students

2- Update of knowledge and references

3- Avoidance of repetition

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

Course Description: Introduction about physiology ,Cell physiology ,M embrane transport. Circulatory system, RBCS, WBCS, Blood Plasma, Heart Sounds, ECG. Digestion and Absorbtion and Roll of Enzymes and Hormons. Respiration. And injury of Smoking.

1. Topics to be Covered		
List of Topics	No. of Weeks	Contact hours
Definitions,physiology of cell membrane ,feedback mechanism and haemeostasis	3	6
Structure and function of digestive system,mechanism of digestion,absorbtion and role of enzymes in digestion and metabolism.	3	6

Mechanisms of respiration ,exchange of gases, health and smoking	3	6
Circulation,blood cellular elements,ECG, heart sounds and lymph	4	8

2. Course components (total contact hours and credits per semester):						
	Lecture	Tutorial	Laboratory or Studio	Practical	Other:	Total
Contact Hours	28	-----	-----	24		52
Credit	28	-----	-----	14		42

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

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

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, assessment method, and teaching strategy ought to reasonably fit and flow together as an integrated learning and teaching process. (Courses are not required to include learning outcomes from each domain.)

Code	NQF Learning Domains	Course Teaching	Course Assessment
1.0	Knowledge		
1.1	Student should know how haemeostasis occurs and how materials digested, absorbed and cross cell membrane	Lectures and practicals	Written and practical exams
1.2	Student should understand how blood circulates and how gases are exchanged	Lectures and practicals	
2.0	Cognitive Skills		
2.1	Understanding the physiological basis of cell membrane function	Lectures and practicals	Written and practical exam
2.2	Understanding haemeostasis	Website watching	Research reports
3.0	Interpersonal Skills & Responsibility		
3.1	Students should finish their home work in time	Individual assignment	Observation
3.2	Students should share ideas and co operate	Group assignments	Observation
4.0	Communication, Information Technology, Numerical		
4.1	Ability to communicate with each other	Group assignments	Observation
4.2			
5.0	Psychomotor		
5.1	Practical classes on determination of RBC and WBC count and differential. Hb. PCV. ESR Enzymes etc	practicals	Practical exam
5.2			

Course LOs #	1.1	1.2	2.1	3.2	4.1
1.1	Students will have sufficient knowledge				
1.2		Students have ability to observe, think and solve many			
2.1			Students have good practice experience about		
3.2				Students will advice and behave good	

4.1					Students have a good basis of functions for
-----	--	--	--	--	--

6. Schedule of Assessment Tasks for Students During the Semester			
	Assessment task (e.g. essay, test, group project, examination,	Week Due	Proportion of Total
1	Quizz	3	5%
2	Midterm (written)	8	20%
3	Quizz	12	5%
4	Weekly practical evaluation	Every week	10%
5	Final practical exam	13	20%
6	Final written exam	16	40%
7		-----	-----
8		-----	-----

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 time 4 hours per week

E Learning Resources

1. List Required Textbooks

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

Text Book of Medical Physiology by Guyton 2006

3. List Recommended Textbooks and Reference Material (Journals, Reports, etc)

Holes Human Anatomy and Physiology by Shier et al 1999

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

1- Marine Biology and Ecology Centre UK

2- Cognition Institute and Rural Sustainability

3- Natural History documents and their astounding catalogue of wild animal physiology

4- The Biomimicry.com

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

National Geographics ,CDs ,videos and T.V. programmes

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.) classrooms
2. Computing resources (AV, data show, Smart Board, software, etc.) -
3. Other resources (specify, e.g. if specific laboratory equipment is required, list requirements or attach list) -

G Course Evaluation and Improvement Processes

1 Strategies for Obtaining Student Feedback on Effectiveness of Teaching

Students feedback obtained from questionnaire

2 Other Strategies for Evaluation of Teaching by the Instructor or by the Department

Staff annual evaluation

3 Processes for Improvement of Teaching

1- Workshops

2- Comparisons of course specification to other competent institutes

3- Periodical revision of the course to include current informations

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

Consider external assessor for the subject

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

1- Inter-departmental assessment

2- External Examiner

