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

ATTACHMENT 5.

T6. COURSE SPECIFICATIONS (CS)

Marine Biology
BIO403

هيئة تقويم التعليم
Education Evaluation Commission

Course Specifications

Institution: University of Tabuk	Date of Report: 20/4/2019
College/Department: Sciences/ Biology	

A. Course Identification and General Information

1. Course title and code: **Marine Biology (403)**
2. Credit hours: 3
3. Program(s) in which the course is offered. **General Biology**
(If general elective available in many programs indicate this rather than list programs)
4. Name of faculty member responsible for the course:
5. Level/year at which this course is offered: Level 8
6. Pre-requisites for this course (if any): Biology 2 (BIO202)
7. Co-requisites for this course (if any): None
8. Location if not on main campus: None
9. Mode of Instruction (mark all that apply)

a. Traditional classroom	✓	What percentage?	75
b. Blended (traditional and online)		What percentage?	
c. e-learning		What percentage?	
d. Correspondence		What percentage?	
f. Other (Lab work)	√	What percentage?	25

Comments:

B Objectives

1. What is the main purpose for this course?

Upon successful completion of Marine Biology, the student should be able to…

- Provide a broad overview of the world's seas and oceans focusing primarily on living organisms.
- Recognize and understand basic terms and concepts of marine biology.
- Relate the properties of saline water to structure and function of marine organisms.
- Identification the biodiversity of marine ecosystems.
- Understand both the general and the habitat- specific biological processes that occur in marine environments.
- Use various media resources (e.g., the Internet, professional journals, etc.) to learn more about marine biology.

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)

- Annual review of course by departmental course planning committee.
- Updating the course with latest curriculum developments in the field.
- Annual review of the laboratory sessions and re-developed with recent experiences, and renew microscopic slides
- Updating course curriculum using internet materials.
- Comparison of course topics with equivalent local and international courses.

C. Course Description (Note: General description in the form to be used for the Bulletin or handbook should be attached)

Course Description:

- This course includes exploring the seas Oceans with a special focus on the red sea, tides, marine environment, interdependence in the Ocean, marine unicellular organisms, marine plants and algae, and marine invertebrate and vertebrate animals.

1. Topics to be Covered

List of Topics	No. of Weeks	Contact Hours
Exploring the seas Oceans with a special focus on the red sea	2	6
Tides	1	3
Marine Environments	2	6
Interdependence in the Ocean	2	6
Marine Unicellular Organisms	1	3
Marine algae and plants	1	3
Marine invertebrate animals	2	6
Marine vertebrate animals	1	3
Revision	1	3

2. Course components (total contact hours and credits per semester):							
		Lecture	Tutorial	Laboratory/ Studio	Practical	Other:	Total
Contact Hours	Planned	**26**		**26**			**52**
	Actual	**26**		**26**			**52**
Credit	Planned	**2**		**1**			**3**
	Actual	**2**		**1**			**3**
3. Additional private study/learning hours expected for students per week. **8**							

4. Course Learning Outcomes in NQF Domains of Learning and Alignment with Assessment Methods and Teaching Strategy
- A brief summary of the knowledge or skills that 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.

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.)

	NQF Learning Domains And Course Learning Outcomes	Course Teaching Strategies	Course Assessment Methods
1.0	**Knowledge** **The student would be able to know the following:**		
1.1	- To describe the recent advances in marine living organisms characteristics, phylogeny, adaptations, zoogeography and reproductive strategies. - To define the seas, oceans with a special focus on the red sea	- Able to memorize the terminology - Lectures - Small group work - Small group discussion - Lab demonstration	In class short essays. MCQs quizzes (Oral and written exam) Major and final exams
1.2	- To Recall and differentiate between different marine living organisms. - To recognize plants, algae and animals systematically in the.	Able to tell and write their own ideas about the Marine Biology	- Speeches, artwork - Web site and computer assisted learning
1.3	- To state with the basics of the plant and animal Ecology. - To recall different marine Environments.	In-class lecturing where the previous knowledge is linked to the current and future topics Weekly Tutorial and discussions	- Self evaluations - Poster presentations - Discussions
2.0	**Cognitive Skills**		

2.1	1. Using computers and internet. 2. Compare animal tissues under the microscope. 3. Prepare and explain how to maintain the salty water aquarium.	Encouraging student to discuss, summarize and plan what they learned and able to explain	- Short quizzes and exams - Diagram presentation and artwork
2.2	1. Measure and subdivide unicellular organisms. 2. Measure and subdivide marine vertebrate animals. 3. Measure and subdivide marine invertebrate animals.	- Oral Quiz - Debates - Lecture - Memorization	- Descriptive exams - Self evaluation
2.3	1. Identification and classification of marine algae and plants. 2. Distinguishing taxonomically between different marine living organisms. 3. Determining seawater salinity and dissolved oxygen. 4. Analyzing marine water.	- Oral Quiz - Debates - Lecture - Memorization	- Group reports - Lab reports - Artwork
3.0	**Interpersonal Skills & Responsibility**		
3.1	- Demonstrate and illustrate interpersonal skill - Modify student acceptance skill during discussion. - Demonstrate that how to work independently and as part of a team.	Analyze through discussion skill tutorial sessions	Evaluations through oral and written questions quiz
3.2	Evaluate and analyze resources, time and other members ofthe group Write questions and illustrate their answers.	Analyze through research activities and writing group reports	
4.0	**Communication, Information Technology, Numerical**		
4.1	Demonstration and use of internet and specifically MS office	Demonstrate the use and operation of computer in the course requirements	In class short MCQs quizzes (orally and written)
4.2	Illustrate the use of new tools in technology Use the computer for following up the latest in Marine Biology and research	Interpretation of new research activities.	Asses through major and final exams
5.0	**Psychomotor : NOT APPLICABLE**		

5. Schedule of Assessment Tasks for Students During the Semester			
	Assessment task (e.g. essay, test, group project, examination, speech, oral presentation, etc.)	Week Due	Proportion of Total Assessment
1	Quiz	5	10%
2	Mid-term lab Exam	8	10%
3	Final lab Exam	15	15%
4	Midterm Theory Exam	8	25%
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 hours10 hr/week
   - Help sessions 1hr/week aided by two faculty members

E. Learning Resources

1. List Required Textbooks
   - Marine biology: An Ecological Approach (6th Edition). James W. Nybakken, Mark D. Bertness (2004).

2. List Essential References Materials (Journals, Reports, etc.): None

3. List Recommended Textbooks and Reference Material (Journals, Reports, etc)
Marine biology: An Ecological Approach (6th Edition). James W. Nybakken, Mark D. Bertness (2004).

4. List Electronic Materials (eg. Web Sites, Social Media, Blackboard, etc.)
- Websites on the internet that are relevant to the topics of the course

5. Other learning material such as computer-based programs/CD, professional standards or regulations and software.
-Multi-media associated with the textbook 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 30seats

2. Computing resources (AV, data show, Smart Board, software, etc.): Power point, Videos related to the subject.

3. Other resources (specify, e.g. if specific laboratory equipment is required, list requirements or attach list).None

G Course Evaluation and Improvement Processes

1 Strategies for Obtaining Student Feedback on Effectiveness of Teaching
   - Course evaluation by students
   - 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 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)
   - 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. Faculty from other institutions are invited to review the accuracy of the grading 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 their responsibility of implementing the proposed changes

Name of Course Instructor: Dr. Abid Ali Ansari

Signature: *Abid Ali Ansari* Date Specification Completed: 20/4/2019

Program Coordinator: **Dr. Omar Salem Obeid Bahattab**

Signature: *Omar Bahattab* Date Received:16/8/1440