



Course Specifications

| | |
|----------------------|-----------------------------------|
| Course Title: | Animal behavior |
| Course Code: | 23074470-2 |
| Program: | BSc Biology |
| Department: | Biology |
| College: | Aljumum University College |
| Institution: | Umm Al-Qura University |

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A. Course Identification

| |
|--------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1. Credit hours: 2 hours |
| 2. Course type |
| a. University <input type="checkbox"/> College <input type="checkbox"/> Department <input checked="" type="checkbox"/> Others <input type="checkbox"/> |
| b. Required <input checked="" type="checkbox"/> Elective <input type="checkbox"/> |
| 3. Level/year at which this course is offered: 4 th year / level 8. |
| 4. Pre-requisites for this course (if any): Fauna of Saudi Arabia (23074468-3). |
| 5. Co-requisites for this course (if any): None |

6. Mode of Instruction (mark all that apply)

| No | Mode of Instruction | Contact Hours | Percentage |
|----|-----------------------|---------------|------------|
| 1 | Traditional classroom | √ | 70 % |
| 2 | Blended | | |
| 3 | E-learning | | 10 % |
| 4 | Correspondence | | 10 % |
| 5 | Other | | 10 % |

7. Actual Learning Hours (based on academic semester)

| No | Activity | Learning Hours |
|------------------------------|---------------------------------|----------------|
| Contact Hours | | |
| 1 | Lecture | 28 |
| 2 | Laboratory/Studio | 42 |
| 3 | Tutorial | 6 |
| 4 | Practical/Field work/Internship | 6 |
| 5 | Others (specify) | 10 |
| | Total | 92 |
| Other Learning Hours* | | |
| 1 | Study | |
| 2 | Assignments | |
| 3 | Library | |
| 4 | Projects/Research Essays/Theses | |
| 5 | Others (specify) | |
| | Total | |

* The length of time that a learner takes to complete learning activities that lead to achievement of course learning outcomes, such as study time, homework assignments, projects, preparing presentations, library times

B. Course Objectives and Learning Outcomes

1. Course Description

The course designed to acquire students with an importance of the animal behaviour, kinds of animal behaviour, natural and vital factors affecting the behaviour of animals, hormones and behaviour, genetics and behaviour, and to explain some of the habits and natures in animals.

2. Course Main Objective

- To acquire students with an importance of the animal behavioural study.
- To acquire students with kinds of animal behaviour.
- Natural and vital factors affecting the behavior of animals.
- To explain relation between hormones and behaviour.
- To explain relation between genetics and behaviour.
- To explain some of the habits and natures in animals.

3. Course Learning Outcomes

| CLOs | | Aligned PLOs |
|----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|
| 1 | Knowledge: | |
| 1.1 | Importance of studying animal behavior. | |
| 1.2 | Know the types of animal behavior. | |
| 1.3 | Methods of studying animal behavior. | |
| 1.4 | Effect of hormones on the behavior. | |
| 1.5 | Latest developments in the field of animal behavior and its applications | |
| 1.6 | Explain the natural habits in animals. | |
| | Know the Communication between animals from different communities, and the chemical communication through Pheromones, and how to communicate between humans and animals. | |
| 2 | Skills : | |
| 2.1 | Record and describe animal behavior. | |
| 2.2 | Search and analyze of behavioral data. | |
| 2.3 | Use computers and internet to analyze behavioral data. | |
| 2.4. | | |
| 3 | Competence: | |
| 3.1 | Ability to work in a team to conduct a specific task. | |
| 3.2 | Ability to work independently to make field observation. | |
| 3.3 | Ability to present results of work to classmates. | |
| 3... | Behave ethically in the lecture and practical classes with the staff, colleagues and environment. | |

C. Course Content

| No | List of Topics | Contact Hours |
|--------------|---------------------------------------------------------------------------------------------------------------------------------|---------------|
| 1 | Explanation of the study plan with general introduction about animal behavior. | 2 |
| 2 | Evolution of animal behavior science and factors affecting it, the theory of impact and response | 2 |
| 3 | Animal anatomy and its relation to behavior (qualitative differentiation of abilities). | 2 |
| 4 | Methods of adaptive behaviour (finding food, hostility, avoiding predators, simulation, parental care , research and survey). | 2 |
| 5 | Analytical study of one animal communities. | 2 |
| 6 | Physiological and genetic effects on animal behaviour. | 2 |
| 7 | Components of the innate and acquired behaviour (taxes, reflexes, instincts, learning, reasoning). | 2 |
| 8 | Behaviour as response to a stimulus. | 2 |
| 9 | Innate Behaviour learning interaction. | 2 |
| 10 | Behaviour of communication between animals. And Communication between animals and humans, chemical communication by pheromones. | 2 |
| 11 | Pattern of sexual behaviour | 2 |
| 12 | Migration and knowledge of trends in animals, social and biological reproduction | 2 |
| 13 | Parenting and caring for young, the habits and of animals | 2 |
| 14 | Habits and natures in animals. General revision, Field trip to wild life | 2 |
| Total | | 28h |

D. Teaching and Assessment

1. Alignment of Course Learning Outcomes with Teaching Strategies and Assessment Methods

| Code | Course Learning Outcomes | Teaching Strategies | Assessment Methods |
|------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1.0 | Knowledge | | |
| 1.1 | <p>Importance of studying animal behavior.</p> <p>Know the types of animal behavior.</p> <p>Methods of studying animal behavior.</p> <p>Effect of hormones on the behavior.</p> <p>Latest developments in the field of animal behavior and its applications.</p> <p>Explain the natural habits in animals.</p> | <ul style="list-style-type: none"> In-class lecturing where the previous knowledge is linked to the current and future topics. Homework assignments. Discussions (connecting what they learn in the class and applying this information in laboratory). Handout of lecture notes for each topic. Cooperative Education (Wiki). Directed discovery. | <p>Mid-term and final exams Evaluation of activities and assignments.</p> <p>Homework and Quizzes. Evaluation of reports. Oral presentations.</p> <p>Course work</p> |

| Code | Course Learning Outcomes | Teaching Strategies | Assessment Methods |
|------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| | | Seminar. | |
| 1.2 | | | |
| 2.0 | Skills | | |
| 2.1 | <p>Know the Communication between animals from different communities, and the chemical communication through Pheromones, and how to communicate between humans and animals. Search and analyze of behavioral data.</p> <p>Use computers and internet to analyze behavioral data</p> | <p>In class lecturing using PowerPoint presentation and illustrations)</p> <p>Homework assignments. Handout of lecture notes for each topic. Use the behavioral diagram.</p> <p>Training - field</p> | <p>Evaluation of field reports and observation.</p> <p>Continuous assessment and Observation.</p> <p>Course work reports. Evaluation of the topics prepared by students according to the content, arrangement, and covering of the topic.</p> <p>Checking the homework assignments.</p> <p>Evaluation of Student drawings</p> |
| 2.2 | | | |
| 3.0 | Competence | | |
| 3.1 | <ul style="list-style-type: none"> Ability to work in a team to conduct a specific task. | <p>Using power point presentation and behavioral illustration.</p> <p>Assigning individual Photography and filming the video for the behavior of different animals from the natural environment.</p> <p>Individual and group discussion. Checking the homework assignments in groups during discussion.</p> <p>Cooperative learning and application of scientific method in thinking the scientific problem solving.</p> | <p>Oral exams.</p> <p>Assessment of collective performances during the lecture and discuss student.</p> <p>Observation of student ethical and moral behaviour.</p> <p>Students' attendance is recorded during lectures. Assessment of the student reports.</p> |
| 3.2 | Ability to work independently to make field observation. | | |
| ... | <ul style="list-style-type: none"> Ability to present results of work to classmates. | | |
| | <ul style="list-style-type: none"> Behave ethically in the lecture and practical classes with the staff, | | |

| Code | Course Learning Outcomes | Teaching Strategies | Assessment Methods |
|------|-----------------------------|---------------------|--------------------|
| | colleagues and environment. | | |

2. Assessment Tasks for Students

| # | Assessment task* | Week Due | Percentage of Total Assessment Score |
|---|---------------------------|----------|--------------------------------------|
| 1 | Periodical Exam(s) | 4 | 10% |
| 2 | Mid Term Exam (Theoretic) | 8 | 20% |
| 3 | Mid Term Exam (practical) | 9 | 10% |
| 4 | Reports and essay | 11 | 5% |
| 5 | Final Practical Exam | 15 | 15% |
| 6 | Final Exam | 16 | 40% |
| 7 | | | |
| 8 | | | |

*Assessment task (i.e., written test, oral test, oral presentation, group project, essay, etc.)

E. Student Academic Counseling and Support

Arrangements for availability of faculty and teaching staff for individual student consultations and academic advice :

- Two hours office per week

F. Learning Resources and Facilities

1. Learning Resources

| | |
|---------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Required Textbooks | <ul style="list-style-type: none"> • Fatik B. Mandal. (2015). Textbook of Animal Behaviour: Third Edition. PHI Learning Private Limited • Shawn E. Nordell and Thomas J. Valona (2015). Animal Behavior: International Edition. Oxford |
| Essential References Materials | <p>سلوك الحيوان ، عزت الدالي وسعاد إبراهيم ، دار النشر الدولي ، الرياض ١٤٢٤ هـ - سلوك الحيوان، جون بول سكوت، مؤسسة الخانجي، ١٩٧٠م لأساسيات المتكاملة لعلم الحيوان ، هيكلان ، الدار العربية للنشر والتوزيع ، القاهرة ١٩٨٩ المدخل لدراسة أساسيات علم الحيوان ، إبراهيم عيسى ، دار هبة للنشر والتوزيع ، أسيوط مصر ١٩٩٨م Sohn Alcock (1999). Animal behaviour , an evolutionary Approach, U.S.A. Barnard, C.J. (1983). Animal behaviour, Ecology and Evolution. U.K</p> |
| Electronic Materials | http://www.animalbehavior.com |
| Other Learning Materials | Microsoft office package. Multi- media associated with the text book and the relevant websites |

2. Facilities Required

| Item | Resources |
|------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Accommodation (Classrooms, laboratories, demonstration rooms/labs, etc.) | <ul style="list-style-type: none"> • Lecture room suitable for 35 students. • Lecture room equipped with a black board and Data show. • Optically and electronically facilitated lecture |

| Item | Resources |
|----------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------|
| | rooms (smart rooms). |
| Technology Resources (AV, data show, Smart Board, software, etc.) | <ul style="list-style-type: none"> Computers or internet connection. Active Board. |
| Other Resources (Specify, e.g. if specific laboratory equipment is required, list requirements or attach a list) | <ul style="list-style-type: none"> Not applicable |

G. Course Quality Evaluation

| Evaluation Areas/Issues | Evaluators | Evaluation Methods |
|------------------------------------------------------------------------|-------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Strategies for Obtaining Student Feedback on Effectiveness of Teaching | the Instructor or by the Department | Distribution of questionnaires for course evaluation by students. Students-faculty meetings. |
| Other Strategies for Evaluation of Teaching | the Instructor or by the Department | Data show is required in every room. Smart Board departmental plan committee. Peer consultation by departmental specialized committee. Self-evaluation of the program by the departmental studying plan committee |

Evaluation areas (e.g., Effectiveness of teaching and assessment, Extent of achievement of course learning outcomes, Quality of learning resources, etc.)

Evaluators (Students, Faculty, Program Leaders, Peer Reviewer, Others (specify))

Assessment Methods (Direct, Indirect)

H. Specification Approval Data

| | |
|---------------------|--|
| Council / Committee | |
| Reference No. | |
| Date | |

Head of Department

Dr. Wessam M. Filfilan

Stamp

