



جامعة الأمير سطام بن عبدالعزيز
Prince Sattam Bin Abdulaziz University

Bachelor of Science in Biology

Vision, Mission and Goals of Program and Learning Outcomes

**Biology Department
College of Sciences and
Humanity Studies
1440-1441 H/ 2019-2020 G**



Vision:

Excellence in the life sciences and their applications in community service.

Mission:

Providing a high-quality standard of education that matches the current challenges, introducing graduates who meet the needs of the job market in the field of biology and contributing to the development of society by creative research.

Objectives:

1. Acquiring students, the basic knowledge of biological sciences.
2. Preparing students having excellent practical skills.
3. Preparing graduates able to take responsibility and contribute to solving problems.
4. Achieve a high quality undergraduate education program.
5. Achieve a strong foundation for postgraduate education, research and practice development in biological sciences.
6. Contribution of solving biological society problems.

About the Department:

The Biology Department is considered as one of the essential departments in science colleges, where it works to balance the knowledge and skills of the graduate combining theory and practice between the scientific life and personal needs, through distinct scientific plans to meet the requirements of the academic standards.

The creation of the department was approved in the academic year 1433 H, started studying in the first semester of the academic year 1433-1434H. The department is specialised for female students only until now.

The biology department offers its academic program over four years of study, divided through eight levels from which grants a bachelor's degree in biology.

Learning Outcomes for the Biology Program:

	NQF Learning Domains and Learning Outcomes	Teaching Strategies	Assessment Methods
1.0	Knowledge		
1.1	Define the use of basic sciences principles needed for biological sciences.	Interactive lectures, Self-learning, Discussion and Group projects.	Written exams, Assignments, Quizzes and Presentations
1.2	List the main concepts and terminology in biology.	Interactive lectures, Self-learning, Discussion and Group projects.	Written exams, Assignments, Quizzes and Presentations
1.3	Define the diversity, characteristics and classification of main groups of animals, plants and microorganisms.	Interactive lectures, Self-learning, Discussion and Group projects.	Written exams, Assignments, Quizzes, Practical exam and Presentations
1.4	Describe the processes, techniques, and applications of advanced fields of biology.	Interactive lectures, Self-learning, Discussion and Group projects.	Written exams, Assignments, Quizzes, Practical exam and Presentations
2.0	Cognitive Skills		
2.1	Demonstrate the analytical and critical thinking skills to develop and implement solutions that solve practical, real problems.	Practical work, Group discussions, Case studies, Group projects, and Discussion	Written Exams, Practical exam, Assignments, and Research reports.
2.2	Analyse different problems in biology and environmental sciences.	Practical work, Group discussions, Case studies, Group projects, and Discussion	Written Exams, Practical exam, Assignments, and Research reports.
2.3	Compare between different structures, function and characteristics in different fields of biology.	Practical work, Group discussions, Case studies, Group projects, and Discussion	Written Exams, Practical exam, Assignments, and Research reports.
2.4	Evaluate experimental data and research project in biology.	Practical work, Group discussions, Case studies, Group projects, and Discussion	Written Exams, Practical exam, Assignments, and Research reports.
2.5	Demonstrate basic experiments and techniques in major laboratories of biology safely and effectively.	Practical work, Group discussions, Case studies, Group projects, Assignments, and Discussion	Written Exams, Practical exam, Assignments, and Research reports.
2.6	Examine different living organisms effectively.	Practical work	Practical exam and observation
2.7	Use laboratory instruments accuracy.	Practical work	Practical exam and observation
3.0	Competence		
3.1	Work effectively within teams to accomplish certain goals.	Group projects, Self-learning, Guided learning, Cooperative learning, Peer instruction learning .	Observation, class discussion, presentation and Reports.
3.2	Communicate effectively with others.	Cooperative learning, Group discussion	Peer evaluations and observation.
3.3	Use soft skills and tools necessary for analyzing biological problems.	Practical work and learning based projects	Practical assessment and project reports.
3.4	Apply professional, ethical, legal, security and social issues and responsibilities.	Practical work, Group discussions, Case studies, Group projects, Assignments, and Discussion	Written Exams, Practical exam, Assignments, and Research reports.