

Gilbert High School - Agricultural Education Department
COURSE SYLLABUS AG100 - Applied Biological Systems

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Course Overview: This course will introduce the basics of agricultural science, animal science, plant science, and agricultural careers. Emphasis will be on finance, management skills, marketing of agricultural products, and leadership development. This course is a prerequisite to other Agriculture Education courses.

Class Fee: \$15

This course will meet one of the District graduation requirements for science, but **will not** replace Lab Biology. This course will satisfy **one lab science credit** for Arizona university entrance requirements.

Course Goals: The purpose of this course is to give students a head start in the growing agriculture and agriscience industry. It offers a broad look at many paths in agriculture such as plant science, animal science, food science, business, natural resources and more. Students will then have the option to further their development in other agriculture courses after completing this prerequisite.

Topics of Instruction (subject to change):

1. Receive an introduction to agriculture and FFA
2. Demonstrate an understanding of plant science
3. Demonstrate an ability to keep records
4. Exhibit an understanding of food science
5. Demonstrate an understanding of animal science
6. Research career options and understand career preparation
7. Develop communication skills
8. Demonstrate an understanding of Arizona wildlife and natural resources
9. Apply approved construction techniques using safe practices
10. Demonstrate an understanding of science fair and conduct an experiment
11. Demonstrate an understanding of entomology
12. Demonstrate an understanding of companion animals
13. Demonstrate an understanding of bioethical issues

Grading: Grades are earned based on the following scale:

90-100 = A 80-89 = B 70-79 = C 60-69 = D 59-0 = F

Participation in this course will count as 20% of the student's final grade.

The final exam at the end of each semester will count as 20% toward the student's final grade.

Course Requirements:

Memorization and delivery of the FFA Creed; report and speech on companion animals; a scientific research project and report; planting and caring for a garden; Supervised Agricultural Experience and record keeping. Quarterly leadership activity participation will be required. Unit exams will be at the end of each unit. Refer to the curriculum to determine approximate dates.

Gilbert FFA Website: Go to **gilbertffa.com** for information on upcoming events, teacher contact info and newsletter.