



Ag/BSC 462 Agroecology

I. General Information

Course syllabus: Winter-mini 2021-22

Credits: 3 sch

Instructor of record: Johanna Delgado Acevedo, Ph.D.

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II. Course Description

This course offers the student an opportunity to explore a student-centered Agroecology course that immerses students into Agroecology through experiential learning.

III. Student Learning Objectives

To learn about community-based organizations and sustainable agriculture.

To understand relationships between farm systems and sustainability.

To understand principles of agroecology and their application.

To develop an experience journal.

To develop communication skills and clarity to present ideas outside of the classroom.

IV. Tentative schedule

i. The Theoretical Basis of Agricultural Ecology

Week 1 – Dec. 20-22

ii. The Design of Alternative Agricultural Systems and Technologies

Week 1 – Dec. 23-24

iii. Alternative Production Systems

Week 2 – Jan. 3-5

iv. Ecological Management of Insect Pests, Pathogens and Weeds

Week 3 – Jan. 6-7

v. Farm visits

Week 4 – Jan. 10-12

V. Evaluation

Exams

Exam 1

50 pts.

Exam 2

50 pts.

Exam 3

50 pts.

Assignments



TEXAS A&M UNIVERSITY

COMMERCE

Wildlife and Conservation Program

Journal 1	10 pts.
Journal 2	10 pts.
Journal 3	10 pts.
Research project and presentation	75 pts.
Total	255 pts

Assignments /Journal articles

Reading and assimilating information is a critical part of your current and continuing education. For each assign date, a journal is named in the right column, choose and read a paper from that journal that you find interesting or relevant. These journals are available in our library (online resources). On that date, provide me a citation and a short description of the paper (10 sentences).

Dec 24	Agroecology and sustainable food systems
Jan 6	Agriculture & food security
Jan 13	Agriculture, ecosystems & environment

Research project and presentation:

You will develop a research project in an area of study of Agroecology. You need to choose a close by farm and learn about the agricultural practices they implement. Explain what agroecological practices they use and their theoretical background and suggest what other practices they can implement. You will create a 5-minute video presentation of your research project.